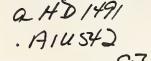
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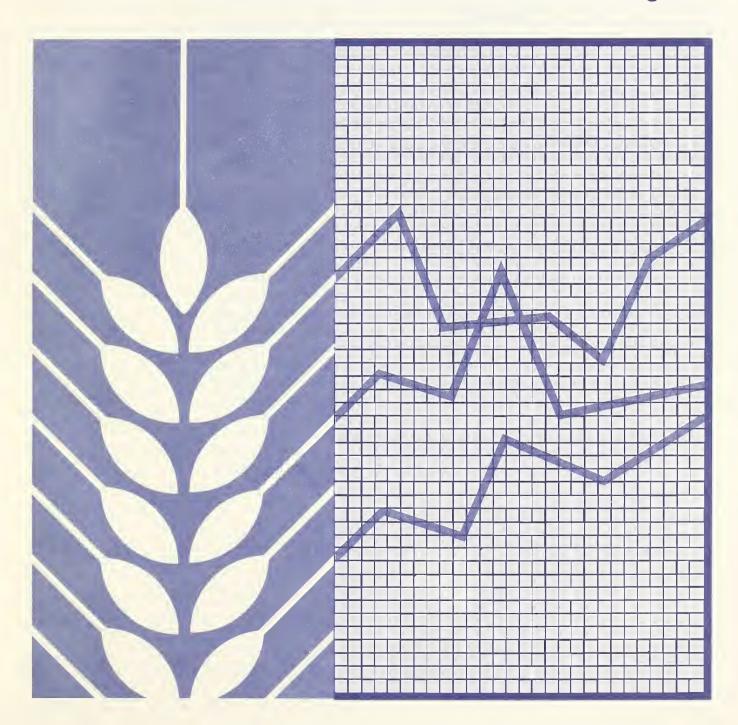


Agricultural Cooperative Service

ACS Research Report Number 53

# Financial Profile of Cooperatives Handling Grain:

First-Handlers, \$15 Million Sales or Larger



#### Financial Profile of Cooperatives Handling Grain:

First-Handlers, \$15 Million Sales or Larger

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#### **Abstract**

This report presents basic information on cooperatives that are first-handlers of grain. Line operations of regional grain cooperatives were excluded. Qualifying associations had annual sales in 1983 of at least \$15 million, with grain sales accounting for more than half of total value of sales. Most associations also handle farm supplies and provide related services.

Key words: cooperative, financial, grain, elevators

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#### **Preface**

Data shown in this report are benchmark and are not comparable with other Agricultural Cooperative Service (ACS) data on the financial structure of farmer cooperatives. The financial information in this report is based largely on balance sheet and operating statement data collected as part of an ACS survey of 2,275 grain marketing cooperatives. Other types of information such as membership, volume of grain handled, and storage capacity were obtained from first-handler cooperatives. All information in this report is for 155 first-handler associations that recorded total sales of \$15 million or more in 1983, of which more than 50 percent was from sales of grain. The 155 constitute about 80 percent of their total population. Most of these cooperatives were diversified, also handling farm supplies and providing many related services.

This report examines the operating and financial data for these first-handlers related to several size factors—grain storage capacity, total sales, total assets, and net savings. In addition, the associations that handled predominantly corn/soybeans, wheat/sorghum, and wheat/barley were summarized separately and compared. Regardless of how they are grouped, the associations are not homogeneous. Even those comparable in terms of total dollar sales, for example, will vary considerably as to proportion of grain sales. No attempt was made to determine what influence asset age and accumulated depreciation had on asset value.

All information included is based on condensed balance sheets and operating statements. Because of variations in accounting and auditing practices and terminology, it was necessary to adjust financial reports to ensure data comparability.

The specific information presented in this report should help cooperative management and boards make sound business decisions as they confront new problems and the need for increasing amounts of capital for improved or new facilities and/or services. Such information can be used as guidelines for success and pitfalls to avoid.

This is the first publication in a planned three-part series. The others will cover grain-handling cooperatives that had dollar sales of \$1 million to \$4.9 million and \$5 million to \$14.9 million.



## Glossary

**Current assets** - The dollar value of assets that can be readily converted into cash without interfering with the normal business operations.

**Investments** - The dollar value of investments in other business organizations, mostly cooperative associations, and deferred patronage.

**Fixed assets** - Dollar value of property, structures and equipment (less depreciation), land, construction in progress, and capital leases.

**Other assets** - All other assets such as bond cost amortization, and deferred and prepaid expenses.

**Current liabilities** - The dollar value of liabilities to be paid, including that portion of long-term debt due in a year or less and patronage refunds payable.

**Long-term liabilities** - The dollar value of all debts with a maturity of more than 1 year, such as debentures, notes, industrial revenue bonds, and mortgage notes.

**Net worth or equity capital** - The dollar value of owners' equity listed in the equity sections—includes common/capital/preferred stock, allocated/unallocated earnings, per-unit retains, and certificates of indebtedness and membership.

**Gross margins** - The dollar value of the sales of grain and farm supplies less cost of goods sold.

Other operating income - The dollar value of storage and handling fees, service revenue, load-out fees, cleaning, mixing, commission, drying, finance charges, etc.

**Nonoperating income** - The dollar value of net interest income/expenses, gain or loss from the sale of assets, dividends on stock, and patronage refunds from other cooperatives.

**Gross income** - The dollar value of gross margins plus other operating income and nonoperating income.

**Total expenses** - The dollar value of labor, administrative, and other general expenses, such as depreciation, repairs, utilities, and property taxes.

**Labor expense** - The dollar value of salaries and wages and fringe benefits, including social security, workers' compensation, unemployment, retirement, hospitalization, bonuses, and other expenses directly related to labor.

**Net savings (losses)** - The dollar value of gross income minus total expenses before income taxes.

Allocation of net savings - The dollar value of the net savings (1) paid in cash as patronage refunds, (2) paid in cash as dividends or interest on stock, (3) allocated to patrons on the book, (4) retained as equity/unallocated retained earnings, (5) allocated to an educational fund, and (6) set aside for income taxes (Federal and State).

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# **Highlights and Conclusions**

This report presents information on the physical and financial structure of 155 first-handlers-of-grain associations with sales of \$15 million or more in 1983. These cooperatives constitute about 80 percent of their nationwide population. Analysis of records for these associations revealed the following:

- Total membership ranged from 365 to 8,300, and averaged 1,946 per association.
  - Grain producers accounted for 69 percent of total membership.
  - Total grain storage capacity per association was 3,965,919 bushels.
  - The grain turnover rate for 1983 was 1.54 times.
  - Total grain marketed per cooperative averaged 6,089,683 bushels.
  - Corn was the leading grain handled, followed by soybeans and wheat.
- Eighty-four percent of the associations' headquarters were located on a railroad.
- Grain and farm supplies sales averaged \$27,575,664 per association. Grain sales accounted for nearly 78 percent of the total sales.
- Labor and related expenses comprised 40 percent of total operating expenses.
- Total value of assets amounted to nearly \$1.5 billion, or \$9,484,222 per association.
- Current assets accounted for 47 percent of total assets; fixed assets, 35 percent; investments and other miscellaneous items, the remaining 18 percent.
- Equity capital of these first-handlers totaled \$717.4 million, averaged \$4,628,423 per association, and was equivalent to 49 percent of total assets.
- Current liabilities were equivalent to 36 percent of total assets, and long-term liabilities were 15 percent. The current ratio was 1.29 to 1.
- Aggregate net savings before income taxes and allocations amounted to \$68.1 million, or \$439,207 per association. Net savings for those associations with savings for the year averaged \$553,291; those with net operating losses averaged \$486,887 each.
- Wheat-sorghum and wheat-barley associations each had more than double the net savings of corn-soybean associations.
- Patronage from other cooperative associations amounted to 13 percent of net savings.
- Patronage allocations to user-members accounted for nearly 58 percent of net earnings, of which 39 percent was paid in cash.
- Substantial change has taken place over time in the financial structure of cooperatives that are first-handlers of grain How does yours compare with others for 1983? See appendix tables 1-24.

Grain-handling cooperatives in the late 1970's and early 1980's have been characterized by accelerated growth, diversification, consolidation, modernization, and retrenchment, all of which have important financial implications.

If grain-handling cooperatives are to adjust successfully to changing economic conditions, they must first command the necessary capital. Grain-handling cooperatives finance their operations through standard procedures used by other businesses in addition to those unique to cooperatives, such as

revolving funds. Financing is through producer-members, local banks, Banks for Cooperatives, and other financial institutions and, in some cases, the investing public.

In the past, many of the grain-handling cooperatives were small associations struggling to better the economic conditions of farmers through cooperative action. They furnished much of the capital needed to operate their associations themselves. Over the years, many have continued to follow this and other traditional and sometimes restrictive patterns of financing their operations. For the purpose of expanding their operations, however, grain-handling cooperatives found that they could not do so on internal, or equity financing. To meet their increasing financial needs and realize economies of scale, many found it necessary to borrow capital.

New approaches are needed today if cooperatives are to continue to grow and be economically sound. Adequate financing and sound financial management are critical. Financial management is probably the most important and complex managerial activity in the operation of grain-handling cooperatives today. Determining capital needs and establishing priorities are critical areas in decisionmaking. Financial planning by grain-handling cooperatives should include (1) the generation of more permanent capital to replace or supplement revolving types of capital, (2) equitable membership participation in financing, and (3) maximizing financial leverage if used.

# Financial Profile of Cooperatives Handling Grain:

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#### FIRST-HANDLER CHARACTERISTICS

This study presents available basic information on the financial structure and related operating characteristics of cooperatives that are first-handlers of grain (referred to hereafter as first-handlers or grain cooperatives) with sales of \$15 million or more in 1983, of which more than 50 percent was from sales of grain. Most of these cooperatives were diversified, also handling farm supplies and providing many related services.

The 155 grain cooperatives in this study averaged 1,946 members per association in 1983. Individual association membership ranged from 365 to nearly 8,300. Grain producers accounted for 69 percent of total membership (table 1). Eighteen percent of the grain cooperative associations had only grain producers as members.

Key terms used in this report are defined in the glossary on the preceding pages.

#### **Storage Capacity**

The grain cooperatives reported an estimated 614,717,504 bushels of total grain storage capacity. This represented nearly 8 percent of total U.S. off-farm storage capacity in 1983. Grain storage capacity ranged from 100,000 to more than 27 million bushels and averaged 3,965,919 bushels per association, or 947,176 bushels per location (table 2). These local cooperative associations collectively had an annual average turnover rate (grain marketed volume/storage capacity) of 1.54 (table 2). The rate declined significantly with an increase in grain storage capacity per association. A high-storage utilization rate is important to maintaining a profitable business. A low turnover rate generally requires a higher perbushel margin to cover the cost of operations.

#### **Grain Volume Marketed and Sales**

The local grain cooperative associations studied marketed nearly 944 million bushels of grain during the 1982 crop year.

Individual association volumes marketed ranged from 1.9 to 24.4 million bushels and averaged 6,089,683 bushels (table 2).

Corn was marketed by 96 percent of the associations and accounted for 52 percent of total grain volume marketed (table 3). Soybeans was second with 20 percent, followed by wheat with 19 percent (table 3).

#### **Accessibility of Railroads**

The recent abandonment of many of the rail lines that have been used by elevators for years to move grain to market has eliminated this shipping alternative for a substantial number of first-handlers. Although 16 percent of the associations' headquarters were not located on a rail line, they often had access to rail lines at one or more of their branch locations. Railroads serving the headquarters of these cooperative associations in 1983 are shown in table 4.

#### **FINANCIAL STATEMENTS**

The operating or income statement summarizes a business operation for a specified time period, showing the sources of income, the nature of expenses, and the net savings or loss from operations. The balance sheet is a summary record of transactions during a period of time that indicates the organization's financial health.

#### **Income Statement**

Sales of grain and farm supplies totaled nearly \$4.3 billion, or \$27,575,664 per association (table 5). Grain as a proportion of total sales varied from 72.8 to 84.1 percent and averaged 77.6 percent for all groups. The largest associations—the 9 percent with total 1983 sales of at least \$50 million—accounted for nearly 22 percent of total dollar sales, 84 percent of it grain. The smallest associations, 16 percent of the total, accounted for less than 10 percent of total sales.

Gross income of first-handlers averaged \$2,731,747 per association in 1983. Income was derived from margins on

| Table 1 - Membership composition | by | total | membership, | 1983 |
|----------------------------------|----|-------|-------------|------|
|----------------------------------|----|-------|-------------|------|

| ****                | Distri             | bution              | Mem    | bership            |
|---------------------|--------------------|---------------------|--------|--------------------|
| Total<br>membership | First-<br>handlers | Total<br>membership | Total  | Grain<br>producers |
| Number              | Pe                 | ercent              | Number | Percent            |
| Less than 500       | 3.2                | 0.7                 | 432    | 88.6               |
| 500-999             | 25.8               | 10.0                | 759    | 81.3               |
| 1,000-1,499         | 20.6               | 12.9                | 1,213  | 76.3               |
| 1,500-1,999         | 15.5               | 13.2                | 1,658  | 69.3               |
| 2,000-2,499         | 11.0               | 12.4                | 2,202  | 67.4               |
| 2,500-4,499         | 14.2               | 23.1                | 3,162  | 65.2               |
| 4,500 or more       | 9.7                | 27.7                | 5,571  | 64.8               |
| All associations    | 100.0              | 100.0               | 1,946  | 69.1               |

Table 2-Grain storage capacity, marketed, and sales, by grain storage capacity, 1983

|                  | Ele          | evator storage capac | ity             |                                 |  | Turn-<br>over<br>rate | Proportion<br>grain of<br>total sales |
|------------------|--------------|----------------------|-----------------|---------------------------------|--|-----------------------|---------------------------------------|
| Storage          | Distribution | Per<br>association   | Per<br>location | Locations<br>per<br>association | Grain mar-<br>keted per<br>association |                       |                                       |
| Million bushels  | Percent      | Bus                  | hels            | Number                          | Bushels                                | Times                 | Percent                               |
| Less than        |              |                      |                 |                                 |  |                       |                                       |
| 1.5              | 4.3          | 1,025,863            | 467,938         | 2.2                             | 4,091,846                              | 3.99                  | 75.6                                  |
| 1.5-2.4          | 9.4          | 2,000,876            | 644,727         | 3.1                             | 4,725,172                              | 2.36                  | 72.7                                  |
| 2.5-3.4          | 16.9         | 2,879,465            | 917,352         | 3.1                             | 4,830,279                              | 1.68                  | 75.5                                  |
| 3.5-4.4          | 15.9         | 3,902,130            | 903,271         | 4.3                             | 6,129,395                              | 1.57                  | 81.7                                  |
| 4.5-6.4          | 16.1         | 5,493,224            | 1,136,529       | 4.8                             | 7,172,071                              | 1.31                  | 75.2                                  |
| 6.5-9.4          | 13.6         | 7,590,331            | 1,043,671       | 7.3                             | 10,444,363                             | 1.38                  | 79.2                                  |
| 9.5 or more      | 23.8         | 14,643,400           | 1,284,509       | 11.4                            | 12,937,273                             | .88                   | 85.7                                  |
| All associations | 100.0        | 3,965,919            | 947,176         | 4.2                             | 6,089,683                              | 1.54                  | 77.6                                  |

Table 3—Grain marketed, total and per association, by type of grain, 1983

|                    | Grain m     | arketed            |                                      |                                  |  |
|--------------------|-------------|--------------------|--------------------------------------|----------------------------------|--|
| Type of grain      | Total       | Per<br>association | Proportion of associations marketing | Distribution<br>of<br>marketings |  |
|                    | Bus         | hels               |                                      | cent                             |  |
| Wheat              | 182,193,546 | 1,175,442          | 79.4                                 | 19                               |  |
| Corn               | 486,480,790 | 3,138,586          | 95.5                                 | 52                               |  |
| Soybeans           | 187,638,612 | 1,210,572          | 87.7                                 | 20                               |  |
| Grain sorghum      | 33,116,443  | 213,654            | 24.5                                 | 3                                |  |
| Barley             | 27,141,629  | 175,107            | 20.6                                 | 3                                |  |
| Other <sup>1</sup> | 27,329,867  | 176,322            | 84.5                                 | 3                                |  |
| Total              | 943,900,887 | 6,089,683          | 100.0                                | 100                              |  |

<sup>1-</sup>includes sunflowers, flaxseed, rye, and oats.

Table 4—Railroads serving association headquarters, 1983

| Railroad                      | Locations served | Distribution |
|-------------------------------|------------------|--------------|
|                               | Number           | Percent      |
| Burlington Northern           | 25               | 16           |
| Chicago and Northwestern      | 24               | 15           |
| Santa Fe <sup>1</sup>         | 12               | 8            |
| Milwaukee <sup>2</sup>        | 11               | 7            |
| Illinois Central Gulf         | 9                | 6            |
| Norfolk Southern <sup>3</sup> | 9                | 6            |
| Union Pacific                 | 7                | 5            |
| Conrail <sup>4</sup>          | 6                | 4            |
| Other rail lines              | 27               | 17           |
| Not on railroad               | 25               | 16           |
| All associations              | 155              | 100          |

<sup>1-</sup>Includes Atchison, Topeka, and Santa Fe.

Table 6—Income and expenses per association and allocation of net savings, 1983

| Item                      | Uni       | t       |
|---------------------------|-----------|---------|
|                           | Dollars   | Percent |
| Income:                   |           |         |
| Operating:                |           |         |
| Margins on sales          | 1,733,701 | 60      |
| Other (service)           | 1,104,066 | 38      |
|                           | 2,837,767 |         |
| Nonoperating:             |           |         |
| Patronage refunds         | 57,506    | 2       |
| Other                     | (163,526) | _       |
|                           | (106,020) |         |
| Gross income <sup>1</sup> | 2,731,747 | 100     |
| Expenses:                 |           |         |
| Labor                     | 917,943   | 40      |
| All other                 | 1,374,597 | 60      |
| Total                     | 2,292,540 | 100     |
| Net savings before taxes2 | 439,207   |         |
| Distribution of savings:  |           |         |
| Paid in cash              | 106,353   | 24      |
| Allocated                 | 179,653   | 41      |
| Unallocated               | 153,201   | 35      |
| Total                     | 439,207   | 100     |

<sup>1-</sup>Margins on sales plus other operating income and all nonoperating

Table 5-Total and grain sales, by total sales, 1983

| Tabal            | Distribution                       | Tota               | al sales          | Grain sales               |                           |  |
|------------------|------------------------------------|--------------------|-------------------|---------------------------|---------------------------|--|
| Total<br>sales   | Distribution<br>of<br>associations | Per<br>association | Distri-<br>bution | Per<br>association        | Proportion of total sales |  |
| Million dollars  | Percent                            | Dollars            | Percent           | Dollars                   | Percent                   |  |
| 15.0-17.4        | 16.1                               | 16,103,977         | 9.4               | 11,905,913                | 73.9                      |  |
| 17.5-22.4        | 36.1                               | 19,449,183         | 25.5              | 14,792,269                | 76.1                      |  |
| 22.5-27.4        | 16.8                               | 25,001,577         | 15.2              | 19,438,763                | 77.8                      |  |
| 27.5-32.4        | 9.7                                | 30,268,522         | 10.6              | 23,227,259                | 76.7                      |  |
| 32.5-37.4        | 6.5                                | 34,188,814         | 8.0               | 25,948,792                | 75.9                      |  |
| 37.5-49.9        | 5.8                                | 44,377,642         | 9.4               | 32,306,023                | 72.8                      |  |
| 50.0 or more     | 9.0                                | 66,937,032         | 21.9              | 56,310,9 <mark>9</mark> 3 | 84.1                      |  |
| All associations | 100.0                              | 27,575,664         | 100.0             | 21,409,211                | 77.6                      |  |

sales, service income, patronage refunds, and other nonoperating income. Sales to generate this income came from grain merchandising and farm supply sales. Margins on these sales accounted for 60 percent of gross income and other operating (service) income 38 percent (table 6).

Operating expenses of the first-handlers amounted to \$2,292,540 per association (table 7). Labor comprised 40 percent of the total. Net savings before taxes ranged from a \$1.6 million loss to \$3.6 million, and averaged \$439,207 per association (table 8). Patronage refunds from other cooperatives, which averaged \$57,506 per association, accounted for 13 percent of net savings.

#### **Balance Sheet**

Total value of assets of all first-handlers in 1983 was nearly \$1.5 billion. Cooperative association assets ranged from less than \$1.5 million to more than \$38 million and averaged about \$9.5 million per association (table 9). Half of the associations studied had total assets of \$5.0-\$9.9 million.

The net book value of fixed assets averaged nearly \$3.3 million (table 10). Current assets were 47 percent of total assets; fixed assets, 35 percent; investments, mostly in other cooperatives, 18 percent; and other assets, less than 1 percent. Total liabilities (current and long-term) and member equity

<sup>2-</sup>Bankruptcy proceedings.

<sup>3-</sup>Includes Norfolk and Western.

<sup>4-</sup>In process of being sold.

<sup>2-</sup>Savings before income taxes and allocations.

Table 7—Gross income, total and labor expenses, and net savings per association, by total sales, 1983

|                  |                 | Labor e           |                    | pense                | All other ex       | xpenses                              | Al- I                           | D: -1 :1 |
|------------------|-----------------|-------------------|--------------------|----------------------|--------------------|--------------------------------------|---------------------------------|----------|
|                  | Gross<br>income | Total<br>expenses | Per<br>association | Relative<br>to total | Per<br>association | Per Relative savings <sup>1</sup> ti | Distribu-<br>tion of<br>savings |          |
| Million dollars  |                 | Dollars           |                    | Percent              | Dollars            | Percent                              | Dollars                         | Percent  |
| 15.0-17.4        | 1,666,826       | 1,408,032         | 595,046            | 42                   | 812,986            | 58                                   | 258,794                         | 9.5      |
| 17.5-22.4        | 1,972,166       | 1,697,870         | 705,377            | 42                   | 992,493            | 58                                   | 274,296                         | 22.6     |
| 22.5-27.4        | 2,433,902       | 2,102,915         | 864,987            | 41                   | 1,237,928          | 59                                   | 330,987                         | 12.6     |
| 27.5-32.4        | 3,271,660       | 2,808,746         | 1,077,610          | 38                   | 1,731,136          | 62                                   | 462,914                         | 10.2     |
| 32.5-37.4        | 3,430,748       | 2,512,070         | 968,854            | 39                   | 1,543,216          | 61                                   | 918,678                         | 13.5     |
| 37.5-49.9        | 4,153,662       | 3,391,412         | 1,495,692          | 44                   | 1,895,720          | 56                                   | 762,250                         | 10.1     |
| 50.0 or          |                 |                   |                    |                      |                    |                                      |                                 |          |
| more             | 6,233,006       | 5,186,558         | 1,864,314          | 36                   | 3,322,244          | 64                                   | 1,046,448                       | 21.5     |
| All associations | 2,731,747       | 2,292,540         | 917,943            | 40                   | 1,374,597          | 60                                   | 439,207                         | 100.0    |

<sup>1-</sup>Savings before income taxes and allocations.

Table 8-Net savings and patronage refunds received per association, by total sales, 1983

| Total sales      | Net savings <sup>1</sup> | Patronage from other cooperatives | Patronage income relative to net savings |
|------------------|--------------------------|-----------------------------------|--|
| Million dollars  | on dollars               |                                   | Percent                                  |
| 15.0-17.4        | 258,794                  | 35,470                            | 13.7                                     |
| 17.5-22.4        | 274,296                  | 44,209                            | 16.1                                     |
| 22.5-27.4        | 330,987                  | 54,044                            | 16.3                                     |
| 27.5-32.4        | 462,914                  | 47,937                            | 10.4                                     |
| 32.5-37.4        | 918,678                  | 66,816                            | 7.3                                      |
| 37.5-49.9        | 762,250                  | 84,111                            | 11.0                                     |
| 50.0 or more     | 1,046,448                | 142,973                           | 13.7                                     |
| All associations | 439,207                  | 57,506                            | 13.1                                     |

<sup>1-</sup>Savings before income taxes and allocations.

Table 9—Selected balance sheet data, by total assets, 1983

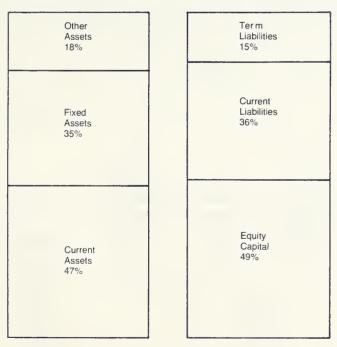
| Takal                                    | Total      |                |                  | Proportion       | of total assets represented by — |                        |                          |                  |
|--|------------|----------------|------------------|------------------|----------------------------------|------------------------|--------------------------|------------------|
| Total assets assets per asso-<br>ciation | per asso-  | Current assets | Invest-<br>ments | Net fixed assets | Other<br>assets                  | Current<br>liabilities | Long-term<br>liabilities | Member<br>equity |
| Million dollars                          | Dollars    |                |                  |                  | Percent -                        |                        |                          |                  |
| Less than                                |            |                |                  |                  |                                  |                        |                          |                  |
| 5.0                                      | 3,789,366  | 40             | 20               | 40               | ( <sup>1</sup> )                 | 25                     | 15                       | 60               |
| 5.0-9.9                                  | 7,132,133  | 47             | 20               | 33               | ( <sup>1</sup> )                 | 35                     | 13                       | 52               |
| 10.0-14.9                                | 11,588,843 | 47             | 18               | 34               | 1                                | 39                     | 14                       | 47               |
| 15.0-24.9                                | 19,208,388 | 46             | 15               | 39               | ( <sup>1</sup> )                 | 35                     | 16                       | 49               |
| 25.0 or                                  |            |                |                  |                  |                                  |                        |                          |                  |
| more                                     | 32,120,448 | 51             | 15               | 34               | ( <sup>1</sup> )                 | 43                     | 17                       | 40               |
| All associations                         | 9,484,222  | 47             | 18               | 35               | ( <sup>1</sup> )                 | 36                     | 15                       | 49               |

<sup>1-</sup>Less than 0.05 percent.

Table 10—Balance sheet averages per association,

| Item                           | Unit      |         |  |  |  |
|--------------------------------|-----------|---------|--|--|--|
|                                | Dollars   | Percent |  |  |  |
| Assets:                        |           |         |  |  |  |
| Current assets                 | 4,472,099 | 47.1    |  |  |  |
| Investments                    | 1,676,632 | 17.7    |  |  |  |
| Fixed                          | 3,289,953 | 34.7    |  |  |  |
| Other                          | 45,538    | .5      |  |  |  |
| Total                          | 9,484,222 | 100.0   |  |  |  |
| Liabilities and member equity: |           |         |  |  |  |
| Current liabilities            | 3,463,520 | 36.5    |  |  |  |
| Long-term debt                 | 1,392,279 | 14.7    |  |  |  |
| Equity                         | 4,628,423 | 48.8    |  |  |  |
| Total                          | 9,484,222 | 100.0   |  |  |  |

Figure 1—Condensed balance sheet data for first handlers of grain. (average \$9.4 million per association)



made up 51 and 49 percent, respectively, of their sum (table 10 and fig. 1).

**Equity Capital** Equity capital provides the element of ownership and control that any cooperative must have to operate and grow. Equity capital also serves as a buffer for creditors to absorb operating losses as well as declines in asset values.

Total equity capital of the first-handlers at the close of 1983 amounted to more than \$717 million, an average of \$4.6 million per association, or \$2,378 per member (table 11).

The types of equity capital reported by the grain cooperatives at the close of 1983 and their relative importance are shown in table 11 and figure 2.

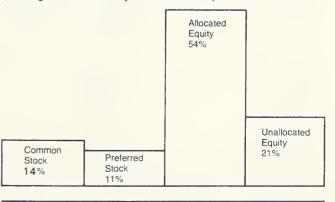
Equity is provided by patrons and others in several ways:

- The purchase of capital stock or other paper
- The investing of a portion of net savings (patronage refunds)
- The contribution of capital through deductions from sales proceeds in the form of per-unit retains.

Two or all of these methods are commonly used by each cooperative.

Common stock (14 percent of total equity capital) is generally used as voting or membership stock by cooperatives. Limitations on ownership, transfer, surrender, cancellation, voting, etc., are most generally included in the articles of incorporation and often printed on the voting stock certificates. This is because ownership and control must remain with the members if an association is to qualify as a farmer cooperative under the Capper-Volstead Act and various State laws.

Figure 2—Type of Equity Capital (average \$4.6 million per association)



Equity certificates and allocated capital credits accounted for 54 percent of total equity capital; unallocated reserves accounted for 21 percent (table 11).

Aggregate net savings after taxes amounted to more than \$64 million, with nearly \$9 million received as patronage refunds from other cooperatives. Net savings after taxes averaged about \$414,842 per association, of which \$57,506 was patronage refunds from other cooperatives. The latter represented more than 13 percent of net savings before taxes (table 12).

#### **Net Savings**

Net savings figures in this report do not reflect all actual savings and value of services provided to members by the grain cooperatives. Many are buy-and-sell type cooperatives that sell at current market prices. Most grain cooperatives attempt to provide services close to actual cost so monies to be allocated at the end of the operating year are relatively small.

Grain cooperatives involved in handling grain and farm supplies may realize a net savings from one activity and incur a net loss from the other. These savings and losses are not

handled uniformly by all multifunction cooperatives as their bylaws generally differ on the matter. Because a cooperative is a single business entity with generally the same members participating in all functions, the results (net savings or net loss) for the operating year typically are reported for the total business. The data for this study were collected on that basis.

Federal income tax laws stipulate that the portion of a cooperative's net savings distributed as patronage refunds is currently deductible before figuring income taxes. At least 20 percent of total patronage refunds must be paid in cash. Their payment has long been a trademark of local first-handlers of grain.

At the close of 1983, aggregate net savings before income taxes and allocations was about \$68 million, or \$439,207 per association (table 13). Of this, \$59.1 million was operating savings and \$8.9 million was patronage refunds received from other cooperatives. Net savings per association member averaged about \$226.

Table 14 shows how first-handlers allocated net savings. Nearly 58 percent was patronage refunds, of which 39 percent was paid out as cash (fig. 3). About 6 percent was used to pay income taxes for 1983.

Table 11 - Types and amounts of member equity capital, by total assets, 1983

|                  |                               | Percentage of member equity represented by |                    |                  |                    |  |  |
|------------------|-------------------------------|--|--------------------|------------------|--------------------|--|--|
| Total assets     | Member equity per association | Common<br>stock                            | Preferred<br>stock | Allocated equity | Unallocated equity |  |  |
| Million dollars  | Dollars                       |  | Perc               | ent              |                    |  |  |
| Less than 5.0    | 2,264,137                     | 19   | 11                 | 43               | 27                 |  |  |
| 5.0-9.9          | 3,673,872                     | 15   | 14                 | 48               | 23                 |  |  |
| 10.0-14.9        | 5,439,645                     | 13   | 7                  | 60               | 20                 |  |  |
| 15.0-24.9        | 9,505,121                     | 7  | 8                  | 71               | 14                 |  |  |
| 25.0 or more     | 12,760,140                    | 22   | 10                 | 49               | 19                 |  |  |
| All associations | 4,628,423                     | 14   | 11                 | 54               | 21                 |  |  |

Table 12—Net savings and patronage income received per association, by total assets, 1983

| Total assets     | Net savings <sup>1</sup> | Patronage from other cooperatives | Patronage income relative to net savings |
|------------------|--------------------------|-----------------------------------|--|
| Million dollars  |                          | - Dollars                         | Percent                                  |
| Less than 5.0    | 228,893                  | 23,358                            | 10.2                                     |
| 5.0-9.9          | 303,185                  | 52,466                            | 17.3                                     |
| 10.0-14.9        | 496,957                  | 53,634                            | 10.8                                     |
| 15.0-24.9        | 1,107,025                | 111,751                           | 10.1                                     |
| 25.0 or more     | 1,424,990                | 177,682                           | 12.5                                     |
| All associations | 439,207                  | 57,506                            | 13.1                                     |

<sup>1-</sup>Savings before income taxes and allocations.

Figure 3—Distribution of Net Savings

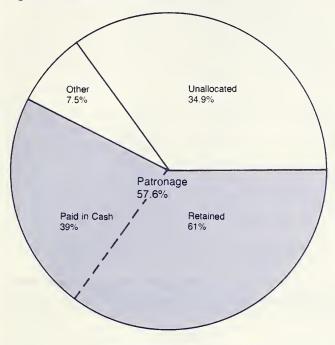


Table 15 shows the grain cooperatives' incomes and expenses by size of net savings. Table 16 shows the sources of income by size of net savings.

Separate operating statements and balance sheets were developed for both net savings and losses in 1983 (table 17). Net savings for the former group averaged \$553,291, compared with an average loss of \$486,887 for the latter group. Gross incomes for associations with net savings and those with losses averaged within \$122,000 of each other. Total expenses per association, however, were 42 percent higher for those reporting losses.

The debt picture is very different for these two groups. Total debt, including the current portion of long-term debt, averaged \$4,223,018 per cooperative for those reporting losses, compared with \$2,502,842 for those reporting net savings. Total debt exceeded member equity by 11 percent and was 42 percent of total assets for the cooperatives reporting losses, while it represented only 53 percent of member equity and was only 27 percent of total assets for those with net savings.

The current ratio for cooperatives reporting losses was 1.09 compared with 1.32 for those reporting savings. Member equity for the associations with losses was 38 percent, compared with 50 percent for those with savings. Cooperative

Table 13-Income sources, total expenses, and net savings per association, by net savings, 1983

| Alex                                  |   | Income source                    |              |                 |                   | Net                                     | Gross                            |
|---------------------------------------|---|----------------------------------|--------------|-----------------|-------------------|---|----------------------------------|
| Net<br>savings<br>(loss) <sup>1</sup> | Margins<br>on sales                     | Patronage<br>refunds<br>received | All<br>other | Gross<br>income | Total<br>expenses | savings<br>(loss) <sup>1</sup>          | income<br>per dollar<br>expenses |
| Thousand Dollars                      | *************************************** |                                  |              | Dollars         |                   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                                  |
| (500 or                               |   |                                  |              |                 |                   |   |                                  |
| more)                                 | 1,944,856                               | 103,315                          | 800,948      | 2,849,119       | 3,837,661         | (988,542)                               | 0.74                             |
| (499-0)                               | 1,614,217                               | 78,054                           | 772,811      | 2,465,082       | 2,600,811         | (135,729)                               | .95                              |
| 1-249                                 | 1,301,675                               | 57,511                           | 644,026      | 2,003,212       | 1,865,250         | 137,962                                 | 1.07                             |
| 250-499                               | 1,265,397                               | 39,156                           | 770,327      | 2,074,880       | 1,700,215         | 374,665                                 | 1.22                             |
| 500-749                               | 1,591,235                               | 59,961                           | 1,026,321    | 2,677,517       | 2,052,294         | 625,223                                 | 1.30                             |
| 750-999                               | 2,202,460                               | 47,462                           | 1,153,749    | 3,403,671       | 2,580,587         | 823,084                                 | 1.32                             |
| 1,000 or more                         | 3,927,341                               | 67,054                           | 2,023,836    | 6,018,231       | 4,200,480         | 1,817,751                               | 1.43                             |
| All associations                      | 1,733,701                               | 57,506 <sup>°</sup>              | 940,540      | 2,731,747       | 2,292,540         | 439,207                                 | 1.19                             |

<sup>1-</sup>Savings before income taxes and allocations.

Table 14—Net savings allocations, by net savings, 1983

|                     | 5                        |                | Distribution of net savings (losses) |          |       |                    |                   |  |
|---------------------|--------------------------|----------------|--------------------------------------|----------|-------|--------------------|-------------------|--|
| Net<br>savings      | Distribution of associa- | Net<br>savings | Patron                               | age      |       | 2                  | Unallo-           |  |
| (loss) <sup>1</sup> | tions                    | (losses)       | Paid in cash                         | Retained | Total | Other <sup>2</sup> | cated<br>reserves |  |
| Thousand dollars    | Percent                  | Dollars        |                                      | Percent  |       |                    |                   |  |
| (500 or more)       | 4.5                      | (988,542)      |                                      |          |       |                    | 100.0             |  |
| (499-0)             | 6.4                      | (135,729)      |                                      |          |       |                    | 100.0             |  |
| 1-249               | 29.7                     | 137,962        | 45                                   | 55       | 24.8  | 18.6               | 56.6              |  |
| 250-499             | 22.6                     | 374,665        | 37                                   | 63       | 45.2  | 8.9                | 45.9              |  |
| 500-749             | 19.4                     | 625,223        | 40                                   | 60       | 51.9  | 6.8                | 41.3              |  |
| 750-999             | 7.1                      | 823,084        | 32                                   | 68       | 62.1  | 3.5                | 34.4              |  |
| 1,000 or more       | 10.3                     | 1,817,751      | 40                                   | 60       | 56.2  | 3.8                | 40.0              |  |
| All associations    | 100.0                    | 439,207        | 39                                   | 61       | 57.6  | 7.5                | 34.9              |  |

<sup>1-</sup>Savings before income taxes and allocations.

Table 15-Total sales, gross income, net savings, and expenses per association, by net savings, 1983

|                                    | Total sa        | ales         |                                 |                 |   |                   | A41                                   |
|------------------------------------|-----------------|--------------|---------------------------------|-----------------|---|-------------------|---------------------------------------|
| Net savings<br>(loss) <sup>1</sup> | Per association | Distribution | Proportion grain of total sales | Gross<br>income | Total operating income of gross income <sup>2</sup> | Total<br>expenses | Net<br>savings<br>(loss) <sup>1</sup> |
| Thousand dollars                   | Dollars         | Per          | cent                            | Dollars         | Percent   | Do                | llars                                 |
| (500 or                            |                 |              |                                 |                 |   |                   |                                       |
| more)                              | 36,201,236      | 5.9          | 76.2                            | 2,849,119       | 116.2   | 3,837,661         | (988,542)                             |
| (499-0)                            | 25,343,738      | 5.9          | 68.9                            | 2,465,082       | 109.2   | 2,600,811         | (135,729)                             |
| 1-249                              | 22,410,107      | 24.1         | 75.8                            | 2,003,212       | 102.7   | 1,865,250         | 137,962                               |
| 250-499                            | 22,731,995      | 18.6         | 77.7                            | 2,074,880       | 104.4   | 1,700,215         | 374,665                               |
| 500-749                            | 24,969,222      | 17.6         | 79.4                            | 2,677,517       | 103.2   | 2,052,294         | 625,223                               |
| 750-999                            | 36,096,607      | 9.3          | 84.8                            | 3,403,671       | 103.3   | 2,580,587         | 823,084                               |
| 1,000                              |                 |              |                                 |                 |   |                   |                                       |
| or more                            | 49,672,362      | 18.6         | 77.6                            | 6,018,231       | 101.5   | 4,200,480         | 1,817,751                             |
| All associations                   | 27,575,664      | 100.0        | 77.6                            | 2,731,747       | 103.9   | 2,292,540         | 439,207                               |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes dividends/interest on equity capital, an educational provision, and Federal and State income taxes.

<sup>2-</sup>Total operating income is margins on sales plus other operating income.

Table 16-Selected sources of gross income per association, by net savings, 1983

| A1 = 1                                | Source of income       |                                  |                                |                 |                        |                                  |                         |  |  |  |  |
|---------------------------------------|------------------------|----------------------------------|--------------------------------|-----------------|------------------------|----------------------------------|-------------------------|--|--|--|--|
| Net<br>savings<br>(loss) <sup>1</sup> | Margins<br>on<br>sales | Patronage<br>refunds<br>received | All other sources <sup>2</sup> | Gross<br>income | Margins<br>on<br>sales | Patronage<br>refunds<br>received | All<br>other<br>sources |  |  |  |  |
| Thousand dollars                      |                        |                                  | Dollars                        |                 |                        | Percent                          |                         |  |  |  |  |
| (500 or                               |                        |                                  |                                |                 |                        |                                  |                         |  |  |  |  |
| more)                                 | 1,944,856              | 103,315                          | 800,948                        | 2,849,119       | 68                     | 4                                | 28                      |  |  |  |  |
| (499-0)                               | 1,614,217              | 78,054                           | 772,811                        | 2,465,082       | 65                     | 3                                | 32                      |  |  |  |  |
| 1-249                                 | 1,301,675              | 57,511                           | 644,026                        | 2,003,212       | 65                     | 3                                | 32                      |  |  |  |  |
| 250-499                               | 1,265,397              | 39,156                           | 770,327                        | 2,074,880       | 61                     | 2                                | 37                      |  |  |  |  |
| 500-749                               | 1,591,235              | 59,961                           | 1,026,321                      | 2,677,517       | 59                     | 2                                | 39                      |  |  |  |  |
| 750-999                               | 2,202,460              | 47,462                           | 1,153,749                      | 3,403,671       | 65                     | 1                                | 34                      |  |  |  |  |
| 1,000 or more                         | 3,927,341              | 67,054                           | 2,023,836                      | 6,018,231       | 65                     | 1                                | 34                      |  |  |  |  |
| All associations                      | 1,733,701              | 57,506                           | 940,540                        | 2,731,747       | 64                     | 2                                | 34                      |  |  |  |  |

<sup>1-</sup>Savings before income taxes and allocations.

Table 17—Operating statement and balance sheet data per association reporting (losses) and savings, 1983

| Item                  | Unit    | AII<br>associations | Associations<br>reporting<br>(losses) | Associations<br>reporting<br>net savings <sup>1</sup> |
|-----------------------|---------|---------------------|---------------------------------------|---|
| Gross income          | Dollars | 2,731,747           | 2,623,215                             | 2,745,117   |
| Total expenses        | Dollars | 2,292,540           | 3,110,102                             | 2,191,826   |
| Net savings           | Dollars | 439,207             | (486,887)                             | 553,291   |
| Total sales           | Dollars | 27,595,664          | 29,814,473                            | 27,299,869  |
| Grain sales           | Dollars | 21,409,211          | 21,638,695                            | 21,380,941  |
| Share of total        | Percent | 77.6                | 72.6                                  | 78.3  |
| Turnover rate         | Times   | 1.54                | 1.64                                  | 1.52  |
| Current assets        | Dollars | 4,472,099           | 4,569,896                             | 4,460,051   |
| Investments           | Dollars | 1,676,632           | 2,326,648                             | 1,596,558   |
| Fixed assets          | Dollars | 3,289,953           | 3,179,047                             | 3,303,615   |
| Other                 | Dollars | 45,538              | 44,894                                | 45,617  |
| Total assets          | Dollars | 9,484,222           | 10,120,485                            | 9,405,841   |
| Current liabilities   | Dollars | 3,463,520           | 4,209,705                             | 3,371,599   |
| Long-term liabilities | Dollars | 1,392,279           | 2,101,140                             | 1,304,955   |
| Equity                | Dollars | 4,628,423           | 3,809,640                             | 4,729,287   |
| Total liabilities     |         |                     |                                       |   |
| and equity            | Dollars | 9,484,222           | 10,120,485                            | 9,405,841   |
| Current ratio         | =       | 1.29                | 1.09                                  | 1.32  |
| Member equity         | Percent | 49                  | 38                                    | 50  |
| Net savings/          |         |                     |                                       |   |
| total assets          | Percent | 4.63                | (4.81)                                | 5.88  |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes operating and nonoperating income.

associations have varying policies and agreements with patrons for handling losses. Some charge members directly for their share of the loss based on member patronage during the year, while others charge losses against allocated equity of members and often against unallocated equity.

#### FINANCIAL STATEMENT ANALYSIS

Financial and operating ratios offer, with limitations, a means of showing relationships between items in the financial statement of a business operation and are a useful tool in helping analyze a cooperative's financial and operating relationships. These ratios can indicate but not solve problems. They are largely descriptive but can serve as guidelines for planning purposes. For ratios to aid meaningfully in formulating actions, management must understand their limitations. This involves not only the type of operation the ratio represents but also the period of time being examined. The situation is further complicated because

both items in a ratio are subject to wide variation and there are no fixed standards or hard and fast rules for evaluating or interpreting a ratio.

Financial analysis means selecting the various factors for looking at the cooperative's overall condition. Things to consider are its ability to (1) meet current obligations, (2) earn a satisfactory return on investment, (3) withstand external or internal financial problems, (4) raise capital when needed, and (5) perform efficiently.

In using ratios, management must first determine what it wants to analyze, then select the appropriate ratio(s). Ratios are susceptible to change as conditions change. They must be revised continuously. At best, ratios are approximations and their use is limited because of differences attributed to such factors as type of business (grain, farm supply), time of year closing, different accounting procedures, and utilization of financial resources. Several ratios are worthy of discussion as

Table 18—Selected overall ratios/percents, 1983

| lho m                                   |       | Value   |        |
|---|-------|---------|--------|
| Item                                    | High  | Average | Low    |
| Grain turnover rate (times)             | 3.99  | 1.54    | 0.88   |
| Current ratio                           | 1.58  | 1.29    | 1.08   |
| Equity/total assets                     | .60   | .49     | .35    |
| Total liabilities/total assets          | .65   | .51     | .40    |
| Debt/equity                             | 1.39  | .58     | .31    |
| Debt/assets                             | .48   | .28     | .18    |
| Total sales/total assets                | 5.19  | 2.91    | 2.30   |
| Gross margins/total sales (percent)     | 9.19  | 6.29    | 4.50   |
| Net savings/total sales (percent)       | 3.66  | 1.59    | -2.73  |
| Labor expenses/total expenses (percent) | 44.10 | 40.00   | 34.20  |
| Net savings/equity (percent)            | 17.40 | 9.49    | -24.28 |
| Net savings/total assets (percent)      | 9.56  | 4.63    | -8.47  |

NOTE: Selected from four groupings: grain storage capacity, total assets, total sales, and net savings. See appendix tables 1-24.

Table 19-Selected balance sheet ratios, by net savings, 1983

| Net savings<br>(loss) <sup>1</sup> | Distribution of associations | of turnover | turnover | Current      | Equity       | Total<br>liabilities | Debt   | Total<br>liabilities | Debt         | Total sales |
|------------------------------------|------------------------------|-------------|----------|--------------|--------------|----------------------|--------|----------------------|--------------|-------------|
|                                    |                              | rate        | ratio    | Total assets | Total assets | Equity               | Equity | Assets               | Total assets |             |
| Thousand dollars                   | Percent                      | Times       | -        |              |              | Rati                 | 0      |                      |              |             |
| (500 or more)                      | 4.5                          | 1.50        | 1.09     | 0.35         | 0.65         | 1.39                 | 1.87   | 0.48                 | 3.10         |             |
| (499-0)                            | 6.4                          | 1.84        | 1.08     | .40          | .60          | .89                  | 1.49   | .36                  | 2.80         |             |
| 1-249                              | 29.7                         | 1.99        | 1.20     | .46          | .54          | .72                  | 1.19   | .33                  | 3.18         |             |
| 250-499                            | 22.6                         | 1.79        | 1.34     | .51          | .49          | .56                  | .98    | .28                  | 3.03         |             |
| 500-749                            | 19.4                         | 1.42        | 1.46     | .54          | .46          | .48                  | .87    | .26                  | 2.89         |             |
| 750-999                            | 7.1                          | 1.43        | 1.20     | .45          | .55          | .49                  | 1.24   | .22                  | 2.69         |             |
| 1,000 or more                      | 10.3                         | 1.11        | 1.43     | .55          | .45          | .39                  | .82    | .21                  | 2.61         |             |
| All associations                   | 100.0                        | 1.54        | 1.29     | .49          | .51          | .58                  | 1.05   | .28                  | 2.91         |             |

<sup>1-</sup>Savings before income taxes and allocations.

they relate to the cooperatives in this study.

Selected group ratios (high, average, low) for the combination of four different groupings of the cooperatives studied—storage capacity, total sales, total assets, and net savings—are summarized in table 18. The complete sets of ratios are contained in appendix tables 5, 6, 11, 12, 17, 18, 23, and 24.

The grain turnover ratio indicates the use efficiency of the available grain elevator storage space. In this study, the grain volume handled by all associations in 1983 averaged 1.54 times storage capacity. The range for the various groups was from 0.88 to 3.99.

The current ratio expresses the relationship between current assets and current liabilities and serves as a general measure of liquidity, or of the cooperative's ability to meet current obligations to creditors. It shouldn't be used without analyzing the individual accounts that comprise current assets.

However, it is possible to have a favorable current ratio and not be able to meet current debt obligations because of a long accounts receivables collection period and/or slow-moving inventories. This ratio averaged 1.29 for all associations (table 18). Looking at the classifications in the four appendix tables (5, 11, 17, 23) containing current ratios, it ranged from 1.08 (table 23) to 1.58 (table 17).

Some ratios can give an indication of balance sheet strength and the claims of the members and debtors on the assets owned by the cooperative.

In this study, owners' equity for the first-handlers averaged nearly 49 percent of total assets. Owners' equity was equivalent to 92 percent of the noncurrent assets, which comprised more than 52 percent of total assets. Creditors estimated an investment of 51 percent. Depending upon the classification of the various items in the financial statement, member equity ranged from a low of 35 percent (table 19) to a

Table 20-Selected balance sheet ratios, by total assets, 1983

| Total            | Distribution of associations | Grain<br>turnover<br>rate | Current | Equity       | Total<br>liabilities | Debt   | Total<br>liabilities | Debt   | Total sales  |
|------------------|------------------------------|---------------------------|---------|--------------|----------------------|--------|----------------------|--------|--------------|
| assets           | associations                 | rate                      | ratio   | Total assets | Total assets         | Equity | Equity               | Assets | Total assets |
| Million dollars  | Percent                      | Times                     |         |              |                      | Ratio  | 0                    |        |              |
| Less than        |                              |                           |         |              |                      |        |                      |        |              |
| 5.0              | 17.4                         | 2.10                      | 1.58    | 0.60         | 0.40                 | 0.35   | 0.67                 | 0.21   | 5.19         |
| 5.0-9.9          | 49.7                         | 1.68                      | 1.34    | .52          | .48                  | .50    | .94                  | .26    | 3.05         |
| 10.0-14.9        | 21.3                         | 1.38                      | 1.22    | .47          | .53                  | .68    | 1.13                 | .32    | 2.74         |
| 15.0-24.9        | 7.1                          | 1.38                      | 1.30    | .49          | .51                  | .65    | 1.02                 | .32    | 2.33         |
| 25.0 or more     | 4.5                          | 1.24                      | 1.20    | .40          | .60                  | .71    | 1.52                 | .28    | 2.35         |
| All associations | 100.0                        | 1.54                      | 1.29    | .49          | .51                  | .58    | 1.05                 | .28    | 2.91         |

Table 21 - Selected operating statement relationships, by net savings, 1983

| Net<br>savings<br>(loss) <sup>1</sup> | Distribution of associations | Gross<br>margins | Net<br>savings <sup>1</sup> | Labor<br>expense | Net<br>savings <sup>1</sup> | Net<br>savings <sup>1</sup> |
|---------------------------------------|------------------------------|------------------|-----------------------------|------------------|-----------------------------|-----------------------------|
| (1033)                                | associations                 | Total sales      | Total sales                 | Total expenses   | Equity                      | Total assets                |
| Thousand dollars                      |                              |                  |                             | Percent          |                             |                             |
| (500 or more)                         | 4.5                          | 5.37             | (2.73)                      | 34.2             | (24.28)                     | (8.47)                      |
| (499-0)                               | 6.4                          | 6.37             | (.54)                       | 40.9             | (3.74)                      | (1.50)                      |
| 1-249                                 | 29.7                         | 5.81             | .62                         | 41.3             | 4.28                        | 1.96                        |
| 250-499                               | 22.6                         | 5.57             | 1.65                        | 41.0             | 9.88                        | 4.99                        |
| 500-749                               | 19.4                         | 6.37             | 2.50                        | 40.4             | 13.51                       | 7.23                        |
| 750-999                               | 7.1                          | 6.10             | 2.28                        | 38.9             | 13.75                       | 6.13                        |
| 1,000 or more                         | 10.3                         | 7.91             | 3.66                        | 39.8             | 17.40                       | 9.56                        |
| All associations                      | 100.0                        | 6.29             | 1.59                        | 40.0             | 9.49                        | 4.63                        |
|                                       |                              |                  |                             |                  |                             |                             |

<sup>1-</sup>Savings before income taxes and allocations.

high of 60 percent (table 20). Management should also compute and evaluate certain related ratios, like the amount of debt to the amount of money the members have in the cooperative and the dollar value of fixed assets that the debt and member equity support.

The *liabilities/net worth (equity)* ratio indicates the amount of money the members owe creditors in relation to the amount of money invested by members. If long-term liabilities are a major part of total liabilities, the ratio may be greater because management has a longer timespan during which to solve any financial problems.

The *net savings/equity* ratio is most commonly used to measure return on investment. For all associations, net savings as a percent of equity ranged from a negative 24.28 to a high of 17.40, and averaged 9.49 percent (table 21).

The *debt/equity* ratio shows the amount of short- and longterm debt capital the cooperative had in relation to the amount of members' money in the cooperative.

#### HOW DOES YOUR ASSOCIATION COMPARE?

Substantial change has taken place in the financial structure of grain cooperatives since the upsurge in grain sales in the late 1970's. This is the result of operational changes by cooperatives in response to changes occurring in exports, production, transportation, farm programs, financial markets, and the world economic situation in general.

#### Size Criteria

Recognizing that the adjustments made by grain associations result in considerable variation in their physical and financial characteristics, four sets of tables were developed based on four size criteria—grain storage capacity, total sales, total assets, and net savings (appendix tables 1-24). With this information, it can readily be determined how an association compares with others having similar operations in the grain-producing areas of the United States.

#### Type of Grains Handled

Most cooperative associations in this study could be meaningfully grouped on the basis of grains handled—cornsoybean, wheat-sorghum, and wheat-barley. The corn-soybean cooperatives serve primarily farmers located in the Corn Belt, the wheat-sorghum cooperatives serve largely Southern Plains farmers, and the wheat-barley cooperatives serve Pacific Northwest producers.

Wheat-barley associations averaged 12 locations per association and 7,552,196 bushels of grain marketed, with a turnover rate of 1.04 times. Grain sales by these associations was a much higher proportion of total sales (90.3 percent) than for their two counterparts (table 22).

Wheat-sorghum associations were the largest in terms of assets, with total assets of \$11,793,300. These associations had 34.1 percent of their balance sheet in fixed assets,

Table 22—Grain storage capacity, marketed, and sales, by type of cooperative association, 1983

| - /                      | Elevator sto       | orage capacity  |                           |  | _                     |                                       |  |
|--------------------------|--------------------|-----------------|---------------------------|--|-----------------------|---------------------------------------|--|
| Type of -<br>association | Per<br>association | Per<br>location | Locations per association | Grain mar-<br>keted per<br>association | Turn-<br>over<br>rate | Proportion<br>grain of<br>total sales |  |
|                          | Bushels            |                 | Number                    | Bushels                                | Times                 | Percent                               |  |
| Corn-Soybean             | 3,555,391          | 1,048,008       | 3.4                       | 5,828,276                              | 1.64                  | 76.5                                  |  |
| Wheat-Sorghum            | 4,375,537          | 1,075,952       | 4.1                       | 4,817,412                              | 1.10                  | 65.8                                  |  |
| Wheat-Barley             | 7,265,857          | 605,488         | 12.0                      | 7,552,196                              | 1.04                  | 90.3                                  |  |
| All associations         | 3,965,919          | 947,176         | 4.2                       | 6,089,683                              | 1.54                  | 77.6                                  |  |

Table 23-Balance sheet, by type of cooperative association, 1983

| Type of association | Total<br>assets | Current assets | Invest-<br>ments | Net<br>fixed<br>assets | Other<br>assets | Total<br>liabilities and<br>member equity | Current<br>liabil-<br>ities | Long-<br>term<br>debt | Member<br>equity |
|---------------------|-----------------|----------------|------------------|------------------------|-----------------|---|-----------------------------|-----------------------|------------------|
|                     | Dollars         |                | Pe               | cent                   |                 | Dollars                                   | Percent                     |                       |                  |
| Corn-Soybean        | 8,789,052       | 45.1           | 18.5             | 36.0                   | 0.4             | 8,789,052                                 | 34.8                        | 16.7                  | 48.5             |
| Wheat-Sorghum       | 11,793,300      | 43.4           | 22.1             | 34.1                   | .4              | 11,793,300                                | 32.1                        | 11.4                  | 56.5             |
| Wheat-Barley        | 8,407,906       | 41.3           | 9.9              | 46.9                   | 1.9             | 8,407,906                                 | 32.5                        | 13.5                  | 54.0             |
| All associations    | 9,484,222       | 47.1           | 17.7             | 34.7                   | .5              | 9,484,222                                 | 36.5                        | 14.7                  | 48.8             |

compared with 36 percent for the corn-soybean and 46.9 percent for the wheat-barley associations (table 23). Member equity for the three groups ranged from 56.5 percent for the wheat-sorghum group to 48.5 percent for the corn-soybean associations.

Wheat-barley cooperatives were the largest in terms of total sales, averaging nearly \$30 million per association (table 24). Operating efficiency, measured here as gross income generated per dollar expended, was highest for these associations. In contrast, their margins on sales of 3.8 percent was considerably lower than those for the wheat-sorghum (9.1 percent) and corn-soybean (6.3 percent) cooperatives. However, the wheat-barley cooperatives derived 55 percent of their gross income from sources other than margins on sales,

largely from services provided. This compares with 45 and 35 percent, respectively, for the wheat-sorghum and cornsoybean associations.

Net savings for the three groups ranged from \$777,792 for the wheat-sorghum associations to \$327,740 for the corn-soybean associations. The wheat-sorghum and wheat-barley associations each had more than double the net savings of the corn-soybean associations (table 25). This was in part because of the significantly higher incidence of losses reported among the corn-soybean cooperatives. The wheat-barley cooperatives paid a cash patronage of 20 percent, followed by the wheat-sorghum with 29 percent and the corn-soybean associations with 45 percent.

Table 24—Income statement, by type of cooperative association, 1983

| ti                                 |              | Type of association |              | A 11                  |
|------------------------------------|--------------|---------------------|--------------|-----------------------|
| Item                               | Corn-soybean | Wheat-sorghum       | Wheat-barley | – All<br>associations |
|                                    |              | Do                  | llars        |                       |
| Total sales                        | 26,688,235   | 24,445,424          | 29,949,288   | 27,575,664            |
| Cost of sales                      | 25,009,273   | 22,224,826          | 28,812,678   | 25,841,963            |
| Margins on sales Patronage refunds | 1,678,962    | 2,220,598           | 1,136,610    | 1,733,701             |
| received                           | 60,365       | 96,582              | -14,999      | 57,506                |
| Other income <sup>1</sup>          | 827,934      | 1,737,680           | 1,411,808    | 940,540               |
| Gross income                       | 2,567,261    | 4,054,860           | 2,533,419    | 2,731,747             |
| Total expenses                     | 2,239,521    | 3,277,068           | 1,788,546    | 2,292,540             |
| Net savings <sup>2</sup>           | 327,740      | 777,792             | 744,873      | 439,207               |
| Gross income per                   |              |                     |              |                       |
| dollar expense                     | 1.15         | 1.24                | 1.42         | 1.19                  |
|                                    |              | Per                 | rcent        |                       |
| Proportion labor of                |              |                     |              |                       |
| total expenses                     | 39.2         | 43.9                | 39.2         | 40.0                  |

<sup>1-</sup>Includes other operating income, interest received (paid), rent, sales of assets gains/losses, etc.

Table 25-Net savings allocations, by type of cooperative association, 1983

|                     |                             |              | Distribution o | f net savings |                    |                  |
|---------------------|-----------------------------|--------------|----------------|---------------|--------------------|------------------|
| Type of association | Net<br>savings <sup>1</sup> |              | Patronage      |               | Other <sup>2</sup> | Unallo-<br>cated |
| association         |                             | Paid in cash | Retained       | Total         |                    | reserves         |
|                     | Dollars                     |              |                | Percent       |                    |                  |
| Corn-Soybean        | 327,740                     | 45           | 55             | 55.2          | 10.5               | 34.3             |
| Wheat-Sorghum       | 777,792                     | 29           | 71             | 79.8          | 1.5                | 18.7             |
| Wheat-Barley        | 744,873                     | 20           | 80             | 65.0          | 12.4               | 22.6             |
| All associations    | 439,207                     | 39           | 61             | 57.6          | 7.5                | 34.9             |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes dividends/interest on equity capital, an educational provision, and Federal and State income taxes.

# **Appendix Tables**

| Storage          | Distribution    | Elevator sto       | rage capacity   | Locations          | Grain mar-               | Turn-        | Proportion              |
|------------------|-----------------|--------------------|-----------------|--------------------|--------------------------|--------------|-------------------------|
| capacity         | of associations | Per<br>association | Per<br>location | per<br>association | keted per<br>association | over<br>rate | grain of<br>total sales |
| Million bushels  | Percent         | Bus                | hels            | Number             | Bushels                  | Times        | Percent                 |
| Less than        |                 |                    |                 |                    |                          |              |                         |
| 1.5              | 16.8            | 1,025,863          | 467,938         | 2.2                | 4,091,846                | 3.99         | 75.6                    |
| 1.5-2.4          | 18.7            | 2,000,876          | 644,727         | 3.1                | 4,725,172                | 2.36         | 72.7                    |
| 2.5-3.4          | 23.2            | 2,879,465          | 917,352         | 3.1                | 4,830,279                | 1.68         | 75.5                    |
| 3.5-4.4          | 16.1            | 3,902,130          | 903,271         | 4.3                | 6,129,395                | 1.57         | 81.7                    |
| 4.5-6.4          | 11.6            | 5,493,224          | 1,136,529       | 4.8                | 7,172,071                | 1.31         | 75.2                    |
| 6.5-9.4          | 7.1             | 7,590,331          | 1,043,671       | 7.3                | 10,444,363               | 1.38         | 79.2                    |
| 9.5 or more      | 6.5             | 14,643,400         | 1,284,509       | 11.4               | 12,937,273               | .88          | 85.7                    |
| All associations | 100.0           | 3,965,919          | 947,176         | 4.2                | 6,089,683                | 1.54         | 77.6                    |

| Storage capacity | Distribution of associations | Total<br>assets | Current<br>assets | Invest-<br>ments | Net<br>fixed<br>assets | Other assets | Total liab-<br>bilities and<br>member equity | Current<br>liabili-<br>ties | Long-<br>term<br>debt | Membe<br>equity |
|------------------|------------------------------|-----------------|-------------------|------------------|------------------------|--------------|--|-----------------------------|-----------------------|-----------------|
| Million bushels  | Percent                      | Dollars         |                   | Perc             | ent                    |              | Dollars                                      |                             | - Percent             |                 |
| Less than        |                              |                 |                   |                  |                        |              |  |                             |                       |                 |
| 1.5              | 16.8                         | 5,491,122       | 50.6              | 21.4             | 27.7                   | 0.3          | 5,491,122                                    | 34.1                        | 8.7                   | 57.2            |
| 1.5-2.4          | 18.7                         | 7,094,050       | 51.4              | 19.3             | 28.9                   | .4           | 7,094,050                                    | 37.2                        | 12.0                  | 50.8            |
| 2.5-3.4          | 23.2                         | 7,609,169       | 45.7              | 20.5             | 33.4                   | .4           | 7,609,169                                    | 38.4                        | 16.8                  | 44.8            |
| 3.5-4.4          | 16.1                         | 8,342,436       | 45.4              | 17.4             | 36.6                   | .6           | 8,342,436                                    | 33.4                        | 15.5                  | 51.1            |
| 4.5-6.4          | 11.6                         | 13,933,128      | 47.5              | 15.4             | 36.3                   | .8           | 13,933,128                                   | 39.7                        | 13.0                  | 47.3            |
| 6.5-9.4          | 7.1                          | 17,016,367      | 50.6              | 16.2             | 33.0                   | .2           | 17,016,367                                   | 37.8                        | 12.4                  | 49.8            |
| 9.5 or more      | 6.5                          | 20,109,041      | 40.6              | 14.0             | 44.9                   | .5           | 20,109,041                                   | 33.1                        | 22.0                  | 44.9            |
| All associations | 100.0                        | 9,484,222       | 47.1              | 17.7             | 34.7                   | .5           | 9,484,222                                    | 36.5                        | 14.7                  | 48.8            |

| Storage capacity | Distribution of associations | Total<br>sales | Cost of sales | Margins<br>on<br>sales | Patronage<br>refunds<br>received | Other 1 income 1 | Gross<br>income | Total<br>expenses | Net<br>savings <sup>2</sup> | Gross income<br>per dollar<br>expense | Proportion<br>labor of<br>total expenses |
|------------------|------------------------------|----------------|---------------|------------------------|----------------------------------|------------------|-----------------|-------------------|-----------------------------|---------------------------------------|--|
| Million bushels  | Percent                      |                |               |                        |                                  | Dollars          |                 |                   |                             |                                       | Percent                                  |
| Less than        |                              |                |               |                        |                                  |                  |                 |                   |                             |                                       |  |
| 1.5              | 18.8                         | 20,188,178     | 18,926,717    | 1,261,461              | 38,322                           | 415,041          | 1,714,824       | 1,424,229         | 290,595                     | 1.20                                  | 44.1                                     |
| 1.5-2.4          | 18.7                         | 22,623,265     | 21,103,043    | 1,520,222              | 45,053                           | 672,973          | 2,238,248       | 2,018,629         | 219,619                     | 1.11                                  | 42.9                                     |
| 2.5-3.4          | 23.2                         | 22,650,098     | 21,296,343    | 1,353,753              | 58,262                           | 656,720          | 2,068,735       | 1,912,414         | 156,321                     | 1.08                                  | 38.3                                     |
| 3.5-4.4          | 16.1                         | 25,481,220     | 24,174,993    | 1,306,227              | 37,695                           | 1,013,898        | 2,357,820       | 1,936,603         | 421,217                     | 1.22                                  | 40.4                                     |
| 4.5-8.4          | 11.6                         | 32,107,318     | 29,853,698    | 2,253,620              | 74,521                           | 1,396,680        | 3,724,821       | 2,921,499         | 803,322                     | 1.27                                  | 41.6                                     |
| 8.5-9.4          | 7.1                          | 51,447,214     | 47,805,583    | 3,641,631              | 95,808                           | 1,545,492        | 5,282,931       | 4,089,399         | 1,193,532                   | 1.29                                  | 38.9                                     |
| 9.5 or           |                              |                |               |                        |                                  |                  |                 |                   |                             |                                       |  |
| more             | 6.5                          | 49,697,554     | 46,715,020    | 2,982,534              | 117,547                          | 2,434,637        | 5,534,718       | 4,494,116         | 1,040,602                   | 1.23                                  | 34.5                                     |
| All association  | ns 100.0                     | 27,575,664     | 25,841,963    | 1,733,701              | 57,506                           | 940,540          | 2,731,747       | 2,292,540         | 439,207                     | 1.19                                  | 40.0                                     |

<sup>1-</sup>Includes other operating income, interest received (paid), rent, sales of assets gains/losses, etc.

<sup>2-</sup>Savings before income taxes and allocations.

|                  |                    |           |                 | Distribution | n of net savings |                    |             |
|------------------|--------------------|-----------|-----------------|--------------|------------------|--------------------|-------------|
| Storage          | Distribution       | Net 1     |                 | Patronage    |                  | 2                  | Unallocated |
| capacity         | of<br>associations | savings'  | Paid<br>in cash | Retained     | Total            | Other <sup>2</sup> | reserves    |
| Million bushels  | Percent            | Dollars   |                 |              | Percent          |                    |             |
| Less than        |                    |           |                 |              |                  |                    |             |
| 1.5              | 16.8               | 290,595   | 37              | 63           | 43.7             | 8.6                | 47.7        |
| 1.5-2.4          | 18.7               | 219,619   | 35              | 65           | 50.7             | 10.8               | 38.5        |
| 2.5-3.4          | 23.2               | 156,321   | 35              | 65           | 80.3             | 19.7               | _           |
| 3.5-4.4          | 16.1               | 421,217   | 42              | 58           | 57.2             | 7.9                | 34.9        |
| 4.5-6.4          | 11.6               | 803,322   | 52              | 48           | 51.6             | 3.3                | 45.1        |
| 6.5-9.4          | 7.1                | 1,193,532 | 42              | 58           | 55.6             | 3.2                | 41.2        |
| 9.5 or           |                    |           |                 |              |                  |                    |             |
| more             | 6.5                | 1,040,602 | 23              | 77           | 68.1             | 8.6                | 23.3        |
| All associations | 100.0              | 439,207   | 39              | 61           | 57.6             | 7.5                | 34.9        |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes dividends/interest on equity capital, an educational provision, and Federal and State income taxes.

| Storage capacity | Distribution of | Grain<br>turnover | Current | Equity       | Total<br>liabilities | Debt    | Total<br>liabilities | Debt   | Total sales  |
|------------------|-----------------|-------------------|---------|--------------|----------------------|---------|----------------------|--------|--------------|
|                  | associations    | rate              | ratio   | Total assets | Total assets         | Equity  | Equity               | Assets | Total assets |
| Million bushels  | Percent         | Times             |         |              |                      | - Ratio |                      |        |              |
| Less than        |                 |                   |         |              |                      |         |                      |        |              |
| 1.5              | 16.8            | 3.99              | 1.49    | 0.57         | 0.43                 | 0.31    | 0.75                 | 0.18   | 3.68         |
| 1.5-2.4          | 18.7            | 2.36              | 1.38    | .51          | .49                  | .54     | .97                  | .27    | 3.19         |
| 2.5-3.4          | 23.2            | 1.68              | 1.19    | .45          | .55                  | .70     | 1.23                 | .31    | 2.98         |
| 3.5-4.4          | 16.1            | 1.57              | 1.36    | .51          | .49                  | .57     | .96                  | .29    | 3.05         |
| 4.5-6.4          | 11.6            | 1.31              | 1.20    | .47          | .53                  | .60     | 1.11                 | .29    | 2.30         |
| 6.5-9.4          | 7.1             | 1.38              | 1.34    | .50          | .50                  | .51     | 1.01                 | .25    | 3.02         |
| 9.5 or           |                 |                   |         |              |                      |         |                      |        |              |
| more             | 6.5             | .88               | 1.22    | .45          | .55                  | .78     | 1.23                 | .35    | 2.47         |
| All associations | 100.0           | 1.54              | 1.29    | .49          | .51                  | .58     | 1.05                 | .28    | 2.91         |

| Storage capacity | Distribution of | Gross<br>margins | Net<br>savings <sup>1</sup> | Labor<br>expense | Net<br>savings <sup>1</sup> | Net<br>savings <sup>1</sup> |
|------------------|-----------------|------------------|-----------------------------|------------------|-----------------------------|-----------------------------|
|                  | associations    | Total sales      | Total sales                 | Total expenses   | Equity                      | Total assets                |
| Million bushels  |                 |                  | - Percent                   |                  |                             |                             |
| Less than        |                 |                  |                             |                  |                             |                             |
| 1.5              | 16.8            | 6.25             | 1.44                        | 44.1             | 9.25                        | 5.29                        |
| 1.5-2.4          | 18.7            | 6.72             | .97                         | 42.9             | 6.10                        | 3.10                        |
| 2.5-3.4          | 23.2            | 5.98             | .69                         | 38.3             | 4.59                        | 2.05                        |
| 3.5-4.4          | 16.1            | 5.13             | 1.65                        | 40.4             | 9.88                        | 5.05                        |
| 4.5-6.4          | 11.6            | 7.02             | 2.50                        | 41.6             | 12.19                       | 5.77                        |
| 6.5-9.4          | 7.1             | 7.08             | 2.32                        | 38.9             | 14.08                       | 7.01                        |
| 9.5 or           |                 |                  |                             |                  |                             |                             |
| more             | 6.5             | 6.00             | 2.09                        | 34.5             | 11.53                       | 5.17                        |
| All associations | 100.0           | 6.29             | 1.59                        | 40.0             | 9.49                        | 4.63                        |

<sup>1-</sup>Savings before income taxes and allocations.

| Total            | Distribution       | Elevator sto       | rage capacity   | Locations          | Grain mar-            | Turn-        | Proportion              |
|------------------|--------------------|--------------------|-----------------|--------------------|-----------------------|--------------|-------------------------|
| sales            | of<br>associations | Per<br>association | Per<br>location | per<br>association | keted per association | over<br>rate | grain of<br>total sales |
| Million dollars  | Percent            | Bu                 | shels           | Number             | Bushels               | Times        | Percent                 |
| 15.0-17.4        | 16.1               | 2,116,876          | 778,263         | 2.7                | 3,476,274             | 1.64         | 73.9                    |
| 17.5-22.4        | 36.1               | 2,717,558          | 869,619         | 3.1                | 4,268,357             | 1.57         | 76.1                    |
| 22.5-27.4        | 16.8               | 3,459,989          | 957,018         | 3.6                | 5,538,412             | 1.60         | 77.8                    |
| 27.5-32.4        | 9.7                | 4,582,110          | 916,422         | 5.0                | 6,258,239             | 1.37         | 76.7                    |
| 32.5-37.4        | 6.5                | 5,457,200          | 1,331,024       | 4.1                | 7,546,129             | 1.38         | 75.9                    |
| 37.5-49.9        | 5.8                | 5,085,012          | 762,752         | 6.7                | 9,069,990             | 1.78         | 72.8                    |
| 50.0 or          |                    |                    |                 |                    |                       |              |                         |
| more             | 9.0                | 10,755,992         | 1,107,234       | 9.7                | 15,928,753            | 1.48         | 84.1                    |
| All associations | 100.0              | 3,965,919          | 947,176         | 4.2                | 6,089,683             | 1.54         | 77.6                    |

| Total<br>sales   | Distribution<br>of<br>associations | Total<br>assets | Current<br>assets | Invest-<br>ments | Net<br>fixed<br>assets | Other<br>assets | Total liab-<br>ilities and<br>member equity | Current<br>liabil-<br>ities | Long-<br>term<br>debt | Member<br>equity |
|------------------|------------------------------------|-----------------|-------------------|------------------|------------------------|-----------------|---|-----------------------------|-----------------------|------------------|
| Million dollars  | Percent                            | Dollars         |                   | Perc             | ent                    |                 | Dollars                                     |                             | - Percent -           |                  |
| 15.0-17.4        | 16.1                               | 5,860,449       | 44.8              | 20.6             | 34.3                   | 0.3             | 5,860,449                                   | 31.8                        | 11.7                  | 56.5             |
| 17.5-22.4        | 36.1                               | 6,612,893       | 45.7              | 19.4             | 34.3                   | .6              | 6,612,893                                   | 34.5                        | 14.5                  | 51.0             |
| 22.5-27.4        | 16.8                               | 8,051,108       | 47.0              | 20.0             | 32.9                   | .1              | 8,051,108                                   | 35.3                        | 13.8                  | 50.9             |
| 27.5-32.4        | 9.7                                | 11,089,258      | 49.4              | 15.5             | 34.0                   | 1.1             | 11,089,258                                  | 43.1                        | 14.2                  | 42.7             |
| 32.5-37.4        | 6.5                                | 11,391,046      | 40.8              | 17.2             | 41.7                   | .3              | 11,391,046                                  | 29.4                        | 16.5                  | 54.1             |
| 37.5-49.9        | 5.8                                | 13,882,486      | 48.8              | 17.2             | 33.4                   | .6              | 13,882,486                                  | 33.3                        | 13.0                  | 53.7             |
| 50.0 or          |                                    |                 |                   |                  |                        |                 |   |                             |                       |                  |
| more             | 9.0                                | 24,192,900      | 50.3              | 14.5             | 34.8                   | .4              | 24,192,900                                  | 41.9                        | 17.0                  | 41.1             |
| All associations | 100.0                              | 9,484,222       | 47.1              | 17.7             | 34.7                   | .5              | 9,484,222                                   | 36.5                        | 14.7                  | 48.8             |

| Total<br>sales       | Distribution of associations | Total<br>sales | Cost of sales | Margins<br>on<br>sales | Patronage<br>refunds<br>received | Other 1 income 1 | Gross<br>income | Total<br>expenses | Net<br>savings <sup>2</sup> | Gross income<br>per dollar<br>expense | Proportion<br>labor of<br>total expense: |
|----------------------|------------------------------|----------------|---------------|------------------------|----------------------------------|------------------|-----------------|-------------------|-----------------------------|---------------------------------------|--|
| Million dollars      | Percent                      |                |               |                        |                                  | Dolla            | rs              |                   |                             |                                       | Percent                                  |
| 15.0-17.4            | 18.1                         | 18,103,977     | 15,085,598    | 1,018,379              | 35,470                           | 612,977          | 1,666,826       | 1,408,032         | 258,794                     | 1.18                                  | 42.3                                     |
| 17.5-22.4            | 38.1                         | 19,449,183     | 18,238,476    | 1,210,707              | 44,209                           | 717,250          | 1,972,166       | 1,697,870         | 274,296                     | 1.16                                  | 41.5                                     |
| 22.5-27.4            | 18.8                         | 25,001,577     | 23,510,740    | 1,490,837              | 54,044                           | 889,021          | 2,433,902       | 2,102,915         | 330,987                     | 1.16                                  | 41.1                                     |
| 27.5-32.4            | 9.7                          | 30,288,522     | 28,113,979    | 2,154,543              | 47,937                           | 1,069,180        | 3,271,660       | 2,808,746         | 462,914                     | 1.16                                  | 38.4                                     |
| 32.5-37.4            | 8.5                          | 34,188,814     | 31,821,499    | 2,367,315              | 66,816                           | 996,617          | 3,430,748       | 2,512,070         | 918,678                     | 1.37                                  | 38.6                                     |
| 37.5-49.9<br>50.0 or | 5.8                          | 44,377,842     | 41,294,401    | 3,083,241              | 84,111                           | 986,310          | 4,153,662       | 3,391,412         | 762,250                     | 1.22                                  | 44.1                                     |
| more                 | 9.0                          | 88,937,032     | 83,154,003    | 3,783,029              | 142,973                          | 2,307,004        | 6,233,006       | 5,186,558         | 1,046,448                   | 1.20                                  | 35.9                                     |
| All associations     | s 100.0                      | 27,575,884     | 25,841,963    | 1,733,701              | 57,506                           | 940,540          | 2,731,747       | 2,292,540         | 439,207                     | 1.19                                  | 40.0                                     |

<sup>1-</sup>Includes other operating income, interest received (paid), rent, sales of assets gains/losses, etc.

# Appendix table 10-Net savings allocations, by total sales, 1983

|                  |                    |                      |                 | Distr     | ibution of net sav | /ings              |                   |
|------------------|--------------------|----------------------|-----------------|-----------|--------------------|--------------------|-------------------|
| Total            | Distribution       | Net                  |                 | Patronage |                    |                    | Unallo-           |
| sales            | of<br>associations | savings <sup>1</sup> | Paid<br>in cash | Retained  | Total              | Other <sup>2</sup> | cated<br>reserves |
| Million dollars  | Percent            | Dollars              |                 |           | Percent            |                    |                   |
| 15.0-17.4        | 16.1               | 258,794              | 32              | 68        | 53.2               | 4.9                | 41.9              |
| 17.5-22.4        | 36.1               | 274,296              | 38              | 62        | 68.0               | 11.4               | 20.6              |
| 22.5-27.4        | 16.8               | 330,987              | 46              | 54        | 51.8               | 8.4                | 39.8              |
| 27.5-32.4        | 9.7                | 462,914              | 30              | 70        | 58.0               | 7.4                | 34.6              |
| 32.5-37.4        | 6.5                | 918,678              | 66              | 34        | 42.1               | 8.3                | 49.6              |
| 37.5-49.9        | 5.8                | 762,250              | 32              | 68        | 63.7               | 6.5                | 29.8              |
| 50.0 or          |                    |                      |                 |           |                    |                    |                   |
| more             | 9.0                | 1,046,448            | 34              | 66        | 58.7               | 4.2                | 37.1              |
| All associations | 100.0              | 439,207              | 39              | 61        | 57.6               | 7.5                | 34.9              |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes dividends/interest on equity capital, an educational provision, and Federal and State income taxes.

# Appendix table 11 - Selected balance sheet ratios, by total sales, 1983

| Total<br>sales   | Distribution of | Grain<br>turnover | Current | Equity       | Total<br>liabilities | Debt      | Total<br>liabilities | Debt   | Total sales  |
|------------------|-----------------|-------------------|---------|--------------|----------------------|-----------|----------------------|--------|--------------|
|                  | associations    | rate              | ratio   | Total assets | Total assets         | Equity    | Equity               | Assets | Total assets |
| Million dollars  | Percent         | Times             |         |              |                      | ···-Ratio |                      |        |              |
| 15.0-17.4        | 16.1            | 1.64              | 1.41    | 0.57         | 0.43                 | 0.38      | 0.77                 | 0.22   | 2.75         |
| 17.5-22.4        | 36.1            | 1.57              | 1.32    | .51          | .49                  | .50       | .96                  | .25    | 2.94         |
| 22.5-27.4        | 16.8            | 1.60              | 1.33    | .51          | .49                  | .62       | .96                  | .31    | 3.11         |
| 27.5-32.4        | 9.7             | 1.37              | 1.14    | .43          | .57                  | .77       | 1.34                 | .33    | 2.73         |
| 32.5-37.4        | 6.5             | 1.38              | 1.39    | .54          | .46                  | .45       | .85                  | .24    | 3.00         |
| 37.5-49.9        | 5.8             | 1.78              | 1.46    | .54          | .46                  | .59       | .86                  | .32    | 3.20         |
| 50.0 or          |                 |                   |         |              |                      |           |                      |        |              |
| more             | 9.0             | 1.48              | 1.20    | .41          | .59                  | .74       | 1.43                 | .31    | 2.77         |
|                  |                 |                   |         |              |                      |           |                      |        |              |
| All associations | 100.0           | 1.54              | 1.29    | .49          | .51                  | .58       | 1.05                 | .28    | 2.91         |

### Appendix table 12—Selected operating statement relationships, by total sales, 1983

| Total<br>sales   | Distribution of | Gross<br>margins | Net<br>savings <sup>1</sup> | Labor<br>expense | Net savings 1 | Net<br>savings <sup>1</sup> |
|------------------|-----------------|------------------|-----------------------------|------------------|---------------|-----------------------------|
|                  | associations    | Total sales      | Total sales                 | Total expenses   | Equity        | Total assets                |
| Million dollars  | ******          |                  | Pe                          | rcent            |               |                             |
| 15.0-17.4        | 16.1            | 6.32             | 1.61                        | 42.3             | 7.81          | 4.42                        |
| 17.5-22.4        | 36.1            | 6.22             | 1.41                        | 41.5             | 8.13          | 4.15                        |
| 22.5-27.4        | 16.8            | 5.96             | 1.32                        | 41.1             | 8.08          | 4.11                        |
| 27.5-32.4        | 9.7             | 7.12             | 1.53                        | 38.4             | 9.78          | 4.17                        |
| 32.5-37.4        | 6.5             | 6.92             | 2.69                        | 38.6             | 14.92         | 8.06                        |
| 37.5-49.9        | 5.8             | 6.95             | 1.72                        | 44.1             | 10.22         | 5.49                        |
| 50.0 or          |                 |                  |                             |                  |               |                             |
| more             | 9.0             | 5.65             | 1.56                        | 35.9             | 10.51         | 4.33                        |
| All associations | 100.0           | 6.29             | 1.59                        | 40.0             | 9.49          | 4.63                        |

<sup>1-</sup>Savings before income taxes and allocations.

| Total            | Distribution       | Elevator sto       | rage capacity   | Locations          | Grain mar-               | Turn-        | Proportion              |
|------------------|--------------------|--------------------|-----------------|--------------------|--------------------------|--------------|-------------------------|
| assets           | of<br>associations | Per<br>association | Per<br>location | per<br>association | keted per<br>association | over<br>rate | grain of<br>total sales |
| Million dollars  | Percent            | Bu                 | shels           | Number             | Bushels                  | Times        | Percent                 |
| Less than        |                    |                    |                 |                    |                          |              |                         |
| 5.0              | 17.4               | 2,357,333          | 816,000         | 2.9                | 4,944,024                | 2.10         | 85.2                    |
| 5.0-9.9          | 49.7               | 2,742,485          | 824,888         | 3.3                | 4,613,763                | 1.68         | 75.7                    |
| 10.0-14.9        | 21.3               | 5,205,002          | 954,250         | 5.5                | 7,175,539                | 1.38         | 77.7                    |
| 15.0-24.9        | 7.1                | 6,251,282          | 1,074,439       | 5.8                | 8,652,984                | 1.38         | 67.9                    |
| 25.0 or          |                    |                    |                 |                    |                          |              |                         |
| more             | 4.5                | 14,195,571         | 1,399,563       | 10.1               | 17,596,695               | 1.24         | 85.0                    |
| All associations | 100.0              | 3,965,919          | 947,176         | 4.2                | 6,089,683                | 1.54         | 77.6                    |

| Total<br>assets  | Distribution<br>of<br>associations | Total<br>assets | Current<br>assets | Invest-<br>ments | Net<br>fixed<br>assets | Other assets | Total liab-<br>ilities and<br>member equity | Current<br>liabil-<br>ities | Long-<br>term<br>debt | Member<br>equity |
|------------------|------------------------------------|-----------------|-------------------|------------------|------------------------|--------------|---|-----------------------------|-----------------------|------------------|
| Million dollars  | Percent                            | Dollars         |                   | Per              | cent                   |              | Dollars                                     |                             | - Percent             |                  |
| Less than        |                                    |                 |                   |                  |                        |              |   |                             |                       |                  |
| 5.0              | 17.4                               | 3,789,366       | 39.9              | 20.3             | 39.4                   | 0.4          | 3,789,366                                   | 25.3                        | 15.0                  | 59.7             |
| 5.0-9.9          | 49.7                               | 7,132,133       | 47.4              | 19.4             | 32.9                   | .3           | 7,132,133                                   | 35.2                        | 13.3                  | 51.5             |
| 10.0-14.9        | 21.3                               | 11,588,843      | 47.4              | 17.7             | 34.2                   | .7           | 11,588,843                                  | 38.7                        | 14.4                  | 46.9             |
| 15.0-24.9        | 7.1                                | 19,208,388      | 45.4              | 14.9             | 39.3                   | .4           | 19,208,388                                  | 34.9                        | 15.6                  | 49.5             |
| 25.0 or          |                                    |                 |                   |                  |                        |              |   |                             |                       |                  |
| more             | 4.5                                | 32,120,448      | 51.2              | 15.0             | 33.4                   | .4           | 32,120,448                                  | 42.6                        | 17.7                  | 39.7             |
| All associations | 100.0                              | 9,484,222       | 47.1              | 17.7             | 34.7                   | .5           | 9,484,222                                   | 36.5                        | 14.7                  | 48.8             |

| Total<br>assets      | Distribution of associations | Total<br>sales | Cost of sales | Margins<br>on<br>sales | Patronage<br>refunds<br>received | Other income 1 | Gross<br>income | Total<br>expenses | Net<br>savings <sup>2</sup> | Gross income<br>per dollar<br>expense | Proportion<br>labor of<br>total expense |
|----------------------|------------------------------|----------------|---------------|------------------------|----------------------------------|----------------|-----------------|-------------------|-----------------------------|---------------------------------------|---|
| Million dollars      | Percent                      |                |               |                        |                                  | Dollars        |                 |                   |                             |                                       | Percent                                 |
| Less than            |                              |                |               |                        |                                  |                |                 |                   |                             |                                       |   |
| 5.0                  | 17.4                         | 19,878,892     | 18,791,373    | 885,319                | 23,358                           | 564,381        | 1,473,058       | 1,244,165         | 228,893                     | 1.18                                  | 40.7                                    |
| 5.0-9.9              | 49.7                         | 21,782,873     | 20,405,759    | 1,358,914              | 52,486                           | 759,624        | 2,169,004       | 1,865,819         | 303,185                     | 1.16                                  | 41.3                                    |
| 10.0-14.9            | 21.3                         | 31,729,301     | 29,868,851    | 1,860,850              | 53,834                           | 1,191,488      | 3,105,752       | 2,608,795         | 496,957                     | 1.19                                  | 39.6                                    |
| 15.0-24.9<br>25.0 or | 7.1                          | 44,686,811     | 40,578,881    | 4,107,730              | 111,751                          | 1,523,873      | 5,743,154       | 4,836,129         | 1,107,025                   | 1.24                                  | 40.8                                    |
| more                 | 4.5                          | 75,515,968     | 70,894,380    | 4,821,808              | 177,882                          | 2,282,199      | 7,281,487       | 5,856,497         | 1,424,990                   | 1.24                                  | 35.0                                    |
| All association      | s <b>100</b> .0              | 27,575,884     | 25,841,963    | 1,733,701              | 57,508                           | 940,540        | 2,731,747       | 2,292,540         | 439,207                     | 1.19                                  | 40.0                                    |

<sup>1-</sup>Includes other operating income, interest received (paid), rent, sales of assets gains/losses, etc.

<sup>2-</sup>Savings before income taxes and allocations.

# Appendix table 16-Net savings allocations, by total assets, 1983

|                  |                    |                      |                 | Distr     | ibution of net sav | rings              |                   |
|------------------|--------------------|----------------------|-----------------|-----------|--------------------|--------------------|-------------------|
| Total            | Distribution       | Net                  |                 | Patronage |                    |                    | Unallo-           |
| assets           | of<br>associations | savings <sup>1</sup> | Paid<br>in cash | Retained  | Total              | Other <sup>2</sup> | cated<br>reserves |
| Million dollars  | Percent            | Dollars              |                 |           | Percent            |                    |                   |
| Less than        |                    |                      |                 |           |                    |                    |                   |
| 5.0              | 17.4               | 228,893              | 52              | 48        | 53.7               | 16.7               | 29.6              |
| 5.0-9.9          | 49.7               | 303,185              | 34              | 66        | 61.6               | 8.7                | 29.7              |
| 10.0-14.9        | 21.3               | 496,957              | 37              | 63        | 50.9               | 8.1                | 41.0              |
| 15.0-24.9        | 7.1                | 1,107,025            | 42              | 58        | 61.9               | 3.3                | 34.8              |
| 25.0 or          |                    |                      |                 |           |                    |                    |                   |
| more             | 4.5                | 1,424,990            | 41              | 59        | 56.3               | 3.2                | 40.5              |
|                  |                    |                      |                 |           |                    |                    |                   |
| All associations | 100.0              | 439,207              | 39              | 61        | 57.6               | 7.5                | 34.9              |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes dividends/interest on equity capital, an educational provision, and Federal and State income taxes.

| Appendix table 1 | 17—Selected balance | sheet ratios, b | v total assets. | 1983 |
|------------------|---------------------|-----------------|-----------------|------|
|------------------|---------------------|-----------------|-----------------|------|

| Total<br>assets  | Distribution of | Grain<br>turnover | Current | Equity       | Total<br>liabilities | Debt   | Total<br>Iiabilities | Debt   | Total sales  |
|------------------|-----------------|-------------------|---------|--------------|----------------------|--------|----------------------|--------|--------------|
|                  | associations    | rate              | ratio   | Total assets | Total assets         | Equity | Equity               | Assets | Total assets |
| Million dollars  | Percent         | Times             |         |              |                      | Ratio  |                      |        |              |
| Less than        |                 |                   |         |              |                      |        |                      |        |              |
| 5.0              | 17.4            | 2.10              | 1.58    | 0.60         | 0.40                 | 0.35   | 0.67                 | 0.21   | 5.19         |
| 5.0-9.9          | 49.7            | 1.68              | 1.34    | .52          | .48                  | .50    | .94                  | .26    | 3.05         |
| 10.0-14.9        | 21.3            | 1.38              | 1.22    | .47          | .53                  | .68    | 1.13                 | .32    | 2.74         |
| 15.0-24.9        | 7.1             | 1.38              | 1.30    | .49          | .51                  | .65    | 1.02                 | .32    | 2.33         |
| 25.0 or<br>more  | 4.5             | 1.24              | 1.20    | .40          | .60                  | .71    | 1.52                 | .28    | 2.35         |
| All associations | 100.0           | 1.54              | 1.29    | .49          | .51                  | .58    | 1.05                 | .28    | 2.91         |

#### Appendix table 18-Selected operating statement relationships, by total assets, 1983

| Total<br>assets  | Distribution of | Gross<br>margins | Net<br>savings <sup>1</sup> | Labor<br>expense | Net<br>savings <sup>1</sup> | Net<br>savings 1 |
|------------------|-----------------|------------------|-----------------------------|------------------|-----------------------------|------------------|
|                  | associations    | Total sales      | Total sales                 | Total expenses   | Equity                      | Total assets     |
| Million dollars  |                 |                  |                             |                  |                             |                  |
| Less than        |                 |                  | Percent                     |                  |                             |                  |
| 5.0              | 17.4            | 4.50             | 1.16                        | 40.7             | 10.11                       | 6.04             |
| 5.0-9.9          | 49.7            | 6.24             | 1.39                        | 41.3             | 8.25                        | 4.25             |
| 10.0-14.9        | 21.3            | 5.86             | 1.57                        | 39.6             | 9.14                        | 4.29             |
| 15.0-24.9        | 7.1             | 9.19             | 2.48                        | 40.8             | 11.65                       | 5.76             |
| 25.0 or          |                 |                  |                             |                  |                             |                  |
| more             | 4.5             | 6.38             | 1.89                        | 35.0             | 11.17                       | 4.44             |
| All associations | 100.0           | 6.29             | 1.59                        | 40.0             | 9.49                        | 4.63             |

<sup>1-</sup>Savings before income taxes and allocations.

| Net savings      | Distribution       | Elevator sto       | rage capacity   | Locations          | Grain mar-               | Turn-        | Proportion              |
|------------------|--------------------|--------------------|-----------------|--------------------|--------------------------|--------------|-------------------------|
| (loss)           | of<br>associations | Per<br>association | Per<br>location | per<br>association | keted per<br>association | over<br>rate | grain of<br>total sales |
| Thousand dollars | Percent            | Bu                 | shels           | Number             | Bushels                  | Times        | Percent                 |
| (500 or          |                    |                    |                 |                    |                          |              |                         |
| more)            | 4.5                | 5,315,571          | 1,550,375       | 3.4                | 7,972,962                | 1.50         | 76.2                    |
| (499-0)          | 6.4                | 2,576,287          | 572,508         | 4.5                | 4,746,842                | 1.84         | 68.9                    |
| 1-249            | 29.7               | 2,443,814          | 729,970         | 3.3                | 4,869,337                | 1.99         | 75.8                    |
| 250-499          | 22.6               | 2,865,356          | 808,770         | 3.5                | 5,141,171                | 1.79         | 77.7                    |
| 500-749          | 19.4               | 4,068,265          | 1,034,305       | 3.9                | 5,785,109                | 1.42         | 79.4                    |
| 750-999          | 7.1                | 6,362,818          | 1,044,642       | 6.1                | 9,092,847                | 1.43         | 84.8                    |
| 1,000 or         |                    |                    |                 |                    |                          |              |                         |
| more             | 10.3               | 9,187,738          | 1,256,443       | 7.3                | 10,194,792               | 1.11         | 77.6                    |
| All associations | 100.0              | 3,965,919          | 947,176         | 4.2                | 6,089,683                | 1.54         | 77.6                    |

| Net savings<br>(loss) | Distribution of associations | Total<br>assets | Current<br>assets | Invest-<br>ments | Net<br>fixed<br>assets | Other assets | Total liab-<br>ilities and<br>member equity | Current<br>liabil-<br>ities | Long-<br>term<br>debt | Member<br>equity |
|-----------------------|------------------------------|-----------------|-------------------|------------------|------------------------|--------------|---|-----------------------------|-----------------------|------------------|
| Thousand dollars      | Percent                      | Dollars         |                   |                  | -Percent               |              | Dollars                                     |                             | - Percent             |                  |
| (500 or               |                              |                 |                   |                  |                        |              |   |                             |                       |                  |
| more)                 | 4.5                          | 11,666,639      | 40.9              | 22.6             | 36.1                   | 0.4          | 11,666,639                                  | 37.6                        | 27.5                  | 34.9             |
| (499-0)               | 6.4                          | 9,038,177       | 48.9              | 23.4             | 27.2                   | .5           | 9,038,177                                   | 45.2                        | 14.7                  | 40.1             |
| 1-249                 | 29.7                         | 7,044,093       | 47.0              | 20.1             | 32.6                   | .3           | 7,044,093                                   | 39.0                        | 15.3                  | 45.7             |
| 250-499               | 22.6                         | 7,506,228       | 48.4              | 17.1             | 33.6                   | .9           | 7,506,228                                   | 36.2                        | 13.3                  | 50.5             |
| 500-749               | 19.4                         | 8,644,671       | 45.5              | 17.4             | 36.4                   | .7           | 8,644,671                                   | 31.2                        | 15.2                  | 53.6             |
| 750-999               | 7.1                          | 13,425,013      | 50.7              | 14.4             | 34.9                   | *            | 13,425,013                                  | 42.3                        | 13.1                  | 44.6             |
| 1,000 or              |                              |                 |                   |                  |                        |              |   |                             |                       |                  |
| more                  | 10.3                         | 19,015,287      | 47.1              | 14.4             | 38.1                   | .4           | 19,015,287                                  | 33.0                        | 12.1                  | 54.9             |
| All associations      | 100.0                        | 9,484,222       | 47.1              | 17.7             | 34.7                   | .5           | 9,484,222                                   | 36.5                        | 14.7                  | 48.8             |

<sup>\*</sup>Less than 0.05 percent.

| Net savings<br>(loss) | Distribu-<br>tion of<br>associations | Total<br>sales | Cost of sales | Margins<br>on<br>sales | Patronage<br>refunds<br>received | Other income 1 | Gross<br>income | Total<br>expenses | Net<br>savings <sup>2</sup> | Gross income<br>per dollar<br>expense | Proportion<br>labor of<br>total expenses |
|-----------------------|--------------------------------------|----------------|---------------|------------------------|----------------------------------|----------------|-----------------|-------------------|-----------------------------|---------------------------------------|--|
| Thousand dollars      | Percent                              |                |               |                        |                                  | Dollars        |                 |                   |                             |                                       | Percent                                  |
| (500 or               |                                      |                |               |                        |                                  |                |                 |                   |                             |                                       |  |
| more                  | 4.5                                  | 36,201,236     | 34,256,380    | 1,944,856              | 103,315                          | 800,948        | 2,849,119       | 3,837,661         | (988,542)                   | 0.74                                  | 34.2                                     |
| (499-0)               | 6.4                                  | 25,343,738     | 23,729,521    | 1,614,217              | 78,054                           | 772,811        | 2,465,082       | 2,600,811         | (135,729)                   | .95                                   | 40.9                                     |
| 1-249                 | 29.7                                 | 22,410,107     | 21,108,432    | 1,301,675              | 57,511                           | 644,026        | 2,003,212       | 1,865,250         | 137,962                     | 1.07                                  | 41.3                                     |
| 250-499               | 22.6                                 | 22,731,995     | 21,466,598    | 1,265,397              | 39,156                           | 770,327        | 2,074,880       | 1,700,215         | 374,665                     | 1.22                                  | 41.0                                     |
| 500-749               | 19.4                                 | 24,969,222     | 23,377,987    | 1,591,235              | 59,961                           | 1,026,321      | 2,677,517       | 2,052,294         | 625,223                     | 1.30                                  | 40.4                                     |
| 750-999               | 7.1                                  | 36,096,607     | 33,894,147    | 2,202,460              | 47,462                           | 1,153,749      | 3,403,671       | 2,580,587         | 823,084                     | 1.32                                  | 38.9                                     |
| 1,000 or              |                                      |                |               |                        |                                  |                |                 |                   |                             |                                       |  |
| more                  | 10.3                                 | 49,672,362     | 45,745,021    | 3,927,341              | 67,054                           | 2,023,836      | 6,018,231       | 4,200,480         | 1,817,751                   | 1.43                                  | 39.8                                     |
| All associations      | 100.0                                | 27,575,664     | 25,841,963    | 1,733,701              | 57,506                           | 940,540        | 2,731,747       | 2,292,540         | 439,207                     | 1.19                                  | 40.0                                     |

<sup>1-</sup>Includes other operating income, interest received (paid), rent, sales of assets gains/losses, etc.

#### Appendix table 22—Net savings allocations, by net savings, 1983

| Net              | Distribu-           | Net                  |                 | Distributi | on of net savings | (losses)           |                   |
|------------------|---------------------|----------------------|-----------------|------------|-------------------|--------------------|-------------------|
| savings          | tion of             | savings <sup>1</sup> |                 | Patronage  |                   | Other <sup>2</sup> | Unallo-           |
| (loss)           | (loss) associations | (loss)               | Paid<br>in cash | Retained   | Total             | . Other            | cated<br>reserves |
| Thousand dollars | Percent             | Dollars              |                 |            | Percent           |                    |                   |
| (500 or more)    | 4.5                 | (988,542)            |                 |            |                   |                    | 100.0             |
| (499-0)          | 6.4                 | (135,729)            |                 |            |                   |                    | 100.0             |
| 1-249            | 29.7                | 137,962              | 45              | 55         | 24.8              | 18.6               | 56.6              |
| 250-499          | 22.6                | 374,665              | 37              | 63         | 45.2              | 8.9                | 45.9              |
| 500-749          | 19.4                | 625,223              | 40              | 60         | 51.9 ·            | 6.8                | 41.3              |
| 750-999          | 7.1                 | 823,084              | 32              | 68         | 62.1              | 3.5                | 34.4              |
| 1,000 or         |                     |                      |                 |            |                   |                    |                   |
| more             | 10.3                | 1,817,751            | 40              | 60         | 56.2              | 3.8                | 40.0              |
| All associations | 100.0               | 439,207              | 39              | 61         | 57.6              | 7.5                | 34.9              |

<sup>1-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Savings before income taxes and allocations.

<sup>2-</sup>Includes dividends/interest on equity capital, an educational provision, and Federal and State income taxes.

| Net<br>savings   | Distribution of | Grain<br>turnover | Current      | Equity       | Total<br>liabilities | Debt   | Total<br>liabilities | Debt   | Total sales  |
|------------------|-----------------|-------------------|--------------|--------------|----------------------|--------|----------------------|--------|--------------|
| (loss)           | associations    | rate              | ratio        | Total assets | Total assets         | Equity | Equity               | Assets | Total assets |
| Thousand dollars | Percent         | Times             | ************ |              |                      | Ratio  |                      |        |              |
| (500 or          |                 |                   |              |              |                      |        |                      |        |              |
| more)            | 4.5             | 1.50              | 1.09         | 0.35         | 0.65                 | 1.39   | 1.87                 | 0.48   | 3.10         |
| (499-0)          | 6.4             | 1.84              | 1.08         | .40          | .60                  | .89    | 1.49                 | .36    | 2.80         |
| 1-249            | 29.7            | 1.99              | 1.20         | .46          | .54                  | .72    | 1.19                 | .33    | 3.18         |
| 250-499          | 22.6            | 1.79              | 1.34         | .51          | .49                  | .56    | .98                  | .28    | 3.03         |
| 500-749          | 19.4            | 1.42              | 1.46         | .54          | .46                  | .48    | .87                  | .26    | 2.89         |
| 750-999          | 7.1             | 1.43              | 1.20         | .45          | .55                  | .49    | 1.24                 | .22    | 2.69         |
| 1,000 or         |                 |                   |              |              |                      |        |                      |        |              |
| more             | 10.3            | 1.11              | 1.43         | .55          | .45                  | .39    | .82                  | .21    | 2.61         |
| All associations | 100.0           | 1.54              | 1.29         | .49          | .51                  | .58    | 1.05                 | .28    | 2.91         |

| Net savings<br>(loss) | Distribution of | Gross<br>margins | Net<br>savings <sup>1</sup> | Labor<br>expense | Net<br>savings <sup>1</sup> | Net<br>savings <sup>1</sup> |
|-----------------------|-----------------|------------------|-----------------------------|------------------|-----------------------------|-----------------------------|
|                       | associations    | Total sales      | Total sales                 | Total expenses   | Equity                      | Total assets                |
| Thousand dollars      | ••==•==         |                  | Per                         | cent             |                             |                             |
| (500 or more)         | 4.5             | 5.37             | (2.73)                      | 34.2             | (24.28)                     | (8.47)                      |
| (499-0)               | 6.4             | 6.37             | (.54)                       | 40.9             | (3.74)                      | (1.50)                      |
| 1-249                 | 29.7            | 5.81             | .62                         | 41.3             | 4.28                        | 1.96                        |
| 250-499               | 22.6            | 5.57             | 1.65                        | 41.0             | 9.88                        | 4.99                        |
| 500-749               | 19.4            | 6.37             | 2.50                        | 40.4             | 13.51                       | 7.23                        |
| 750-999               | 7.1             | 6.10             | 2.28                        | 38.9             | 13.75                       | 6.13                        |
| 1,000 or              |                 |                  |                             |                  |                             |                             |
| more                  | 10.3            | 7.91             | 3.66                        | 39.8             | 17.40                       | 9.56                        |
| All associations      | 100.0           | 6.29             | 1.59                        | 40.0             | 9.49                        | 4.63                        |

<sup>1-</sup>Savings before income taxes and allocations.





#### U.S. Department of Agriculture Agricultural Cooperative Service

Agricultural Cooperative Service (ACS) provides research, management, and educational assistance to cooperatives to strengthen the economic position of farmers and other rural residents. It works directly with cooperative leaders and Federal and State agencies to improve organization, leadership, and operation of cooperatives and to give guidance to further development.

The agency (1) helps farmers and other rural residents develop cooperatives to obtain supplies and services at lower cost and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs.

ACS publishes research and educational materials and issues *Farmer Cooperatives* magazine. All programs and activities are conducted on a nondiscriminatory basis, without regard to race, creed, color, sex, or national origin.